

COLOR TELEVISION

Chassis No. MS-B

MODEL 32R-S60

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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ELECTRICAL SPECIFICATIONS

POWER INPUT	120V AC 60 Hz	SPEAKER	
POWER RATING	152W	SIZE	12 cm × 6 cm Oval (2 pcs.)
PICTURE SIZE	3,073cm ² (476sq inch)	VOICE COIL IMPEDANCE	8 ohm at 400 Hz
CONVERGENCE	Magnetic	ANTENNA INPUT IMPEDANCE	
SWEEP DEFLECTION	Magnetic	VHF/UHF	75 ohm Unbalanced
FOCUS	Hi-Bi-Potential Electrostatic	TUNING RANGES	
INTERMEDIATE FREQUENCIES		VHF-Channels	2 thru 13
Picture IF Carrier Frequency	45.75 MHz	UHF-Channels	14 thru 69
Sound IF Carrier Frequency	41.25 MHz	CATV Channels	1 thru 125
Color Sub-Carrier Frequency	42.17 MHz		(EIA, Channel Plan U.S.A.)
	(Nominal)		
AUDIO POWER			
OUTPUT RATING	3.0W + 3.0W (at 10% distortion and		
	Dual CH Operate)		

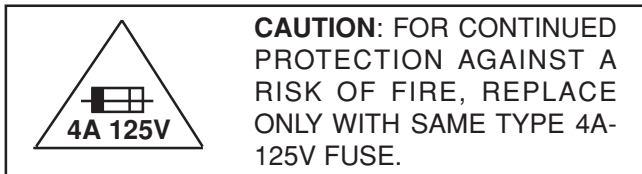
Specifications are subject to change without prior notice.

IMPORTANT SERVICE SAFETY PRECAUTION

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the chassis is operating.
4. The chassis in this receiver has two ground systems which are separated by insulating material. The non-isolated (hot) ground system is for the B+ voltage regulator circuit. The isolated ground system is for the low B+ DC voltages and the secondary circuit of the high voltage transformer.
To prevent electrical shock use an isolation transformer between the line cord and power receptacle, when servicing this chassis.



SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the picture tube ground and the anode lead. (AC line cord should be disconnected from AC outlet.)

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage anode completely.

X-RADIATION AND HIGH VOLTAGE LIMITS

1. Be sure all service personnel are aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in current solid state TV receivers is the picture tube. However, the picture tube does not emit measurable X-Ray radiation, if the high voltage is as specified in the "High Voltage Check" instructions.
It is only when high voltage is excessive that X-radiation is capable of penetrating the shell of the picture tube including the lead in the glass material. The important precaution is to keep the high voltage below the maximum level specified.
2. It is essential that servicemen have available at all times an accurate high voltage meter.
The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value –no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and;also, under certain conditions, may produce radiation in exceeding of desirable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be tested while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. Do not use a picture tube other than that specified or make unrecommended circuit modifications to the high voltage circuitry.
6. When trouble shooting and taking test measurements on a receiver with excessive high voltage, avoid being unnecessarily close to the receiver.
Do not operate the receiver longer than is necessary to locate the cause of excessive voltage.

IMPORTANT SERVICE SAFETY PRECAUTION

(Continued)

BEFORE RETURNING THE RECEIVER

(Fire & Shock Hazard)

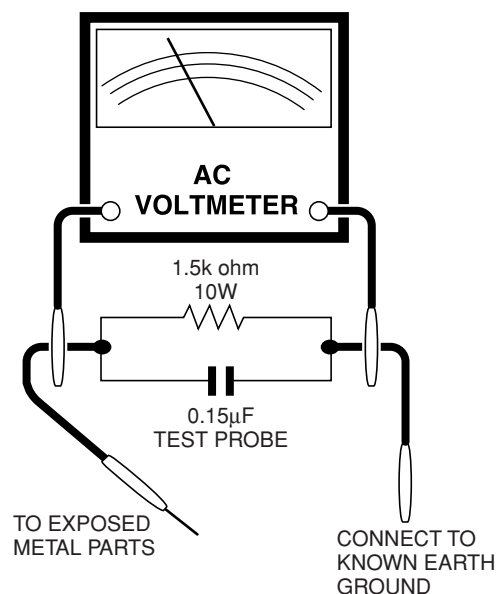
Before returning the receiver to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
 - Plug the AC cord directly into a 120 volt AC outlet, (Do not use an isolation transformer for this test).
 - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to earth ground.
 - Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor.

- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC line cord plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these check.)

Any current measured must not exceed 0.5 milliamp. Any measurements not within the limits outlined above indicate of a potential shock hazard and corrective action must be taken before returning the instrument to the customer.



SAFETY NOTICE

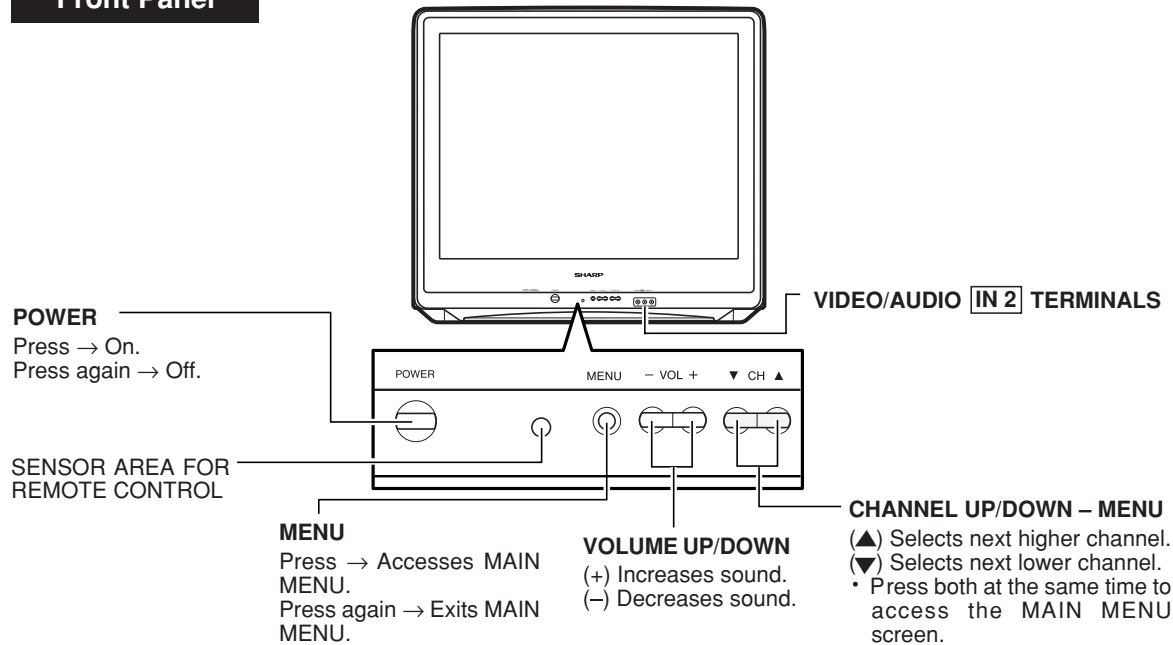
Many electrical and mechanical parts in television receivers have special safety-related characteristics. These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by " \triangle " and shaded areas in the Replacement Parts Lists and Schematic Diagrams.

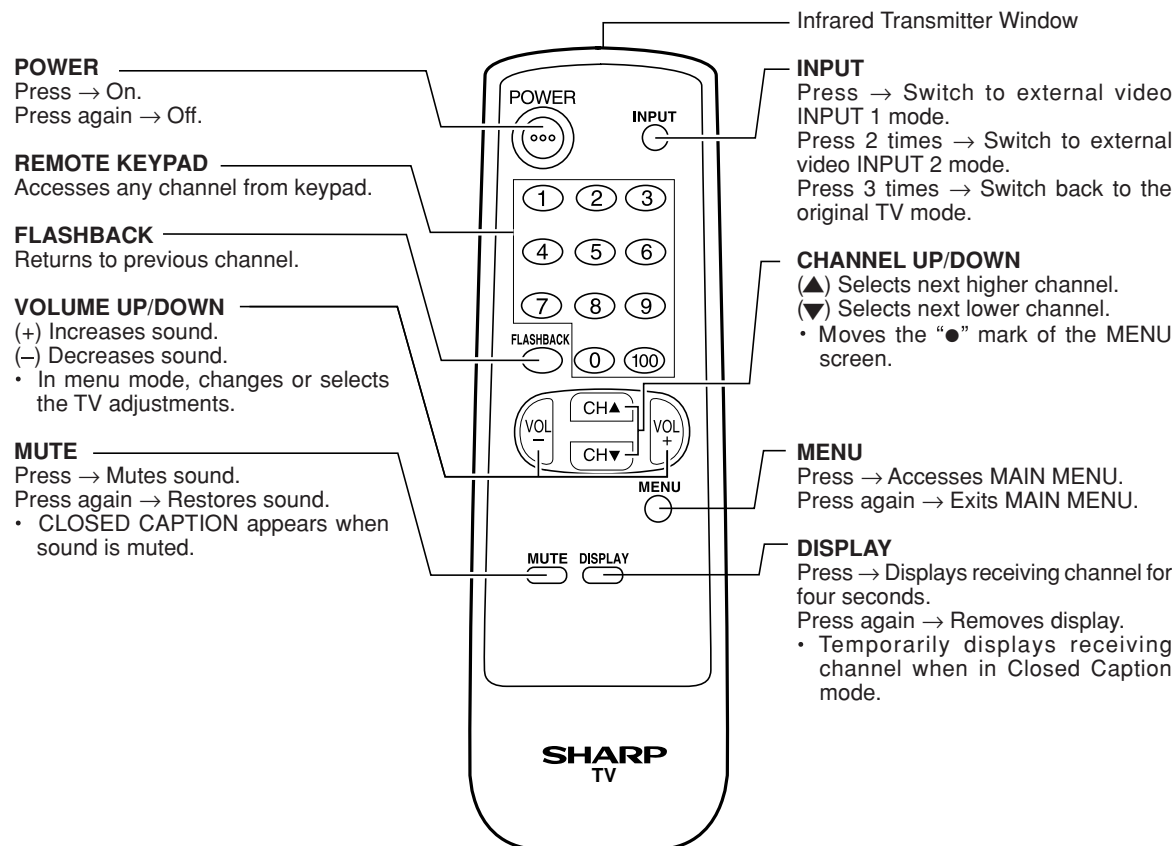
For continued protection, replacement parts must be identical to those used in the original circuit. The use of substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire, X-radiation or other hazards.

LOCATION OF USER'S CONTROL

Front Panel



Basic Remote Control Functions



INSTALLATION AND SERVICE INSTRUCTIONS

- Note:** (1) When performing any adjustments to resistor controls and transformers use non-metallic screwdrivers or TV alignment tools.
 (2) Before performing adjustments, the TV set must be on at least 15 minutes.

CIRCUIT PROTECTION

The receiver is protected by a 4.0A fuse (F701), mounted on PWB-A, wired into one side of the AC line input.

X-RADIATION PROTECTOR CIRCUIT TEST

After service has been performed on the horizontal deflection system, high voltage system, B+ system, test the X-Radiation protection circuit to ascertain proper operation as follows:

1. Apply 120V AC using a variac transformer for accurate input voltage.
2. Allow for warm up and adjust all customer controls for normal picture and sound.
3. Receive a good local channel.
4. Connect a digital voltmeter to TP651 and make sure that the voltmeter reads $13.2 \pm 0.7V$.
5. Apply external 16.3V DC at TP651 by using an external DC supply, TV must be shut off.
6. To reset the protector, unplug the AC cord and plug the AC cord power on. Now make sure that normal picture appears on the screen.
7. If the operation of the horizontal oscillator does not stop in step 5, the circuit must be repaired before the set is returned to the customer.

HIGH VOLTAGE CHECK

High voltage is not adjustable but must be checked to verify that the receiver is operating within safe and efficient design limitations as specified checks should be as follows:

1. Connect an accurate high voltage meter between ground and anode of picture tube.
2. Operate receiver for at least 15 minutes at 120V AC line voltage, with a strong air signal or a properly tuned in test signal.
3. Enter the service mode and select the service adjustment "V18" and Bus data "01" (Y-mute on, CRT Cut Off).
4. The voltage should be approximately 33.0kV (at zero beam).
 If a correct reading cannot be obtained, check circuitry for malfunctioning components. After the voltage test, make Y-mute off to the normal mode.

For adjustments of this model, the bus data is converted to various analog signals by the D/A converter circuit.

Note: There are still a few analog adjustments in this series such as focus and master screen voltage. Follow the steps below whenever the service adjustment is required. See "Table-B" to determine, if service adjustments are required.

1. Service mode

Before putting unit into the service mode, check that customer adjustments are in the normal mode. Use the reset function in the video adjustment menu to ensure customer controls are in their proper (reset) position.

2. Service number selection

Once in the service mode, press the Ch-up or Ch-down button on the remote controller or at the set. The service adjustment number will vary in increments of one, from "V01" to "P08". Select the item you wish to adjust.

3. Data number selection

Press the Vol-up or Vol-down button to adjust the data number.

To enter the service mode and exit service mode.

To enter the service mode manually just press and hold the Vol-down and Ch-up buttons at the same time, plug the AC cord into a wall socket.

Now the TV set is switched on and enters the service mode.

To exit the service mode, turn the television off by pressing the power button.

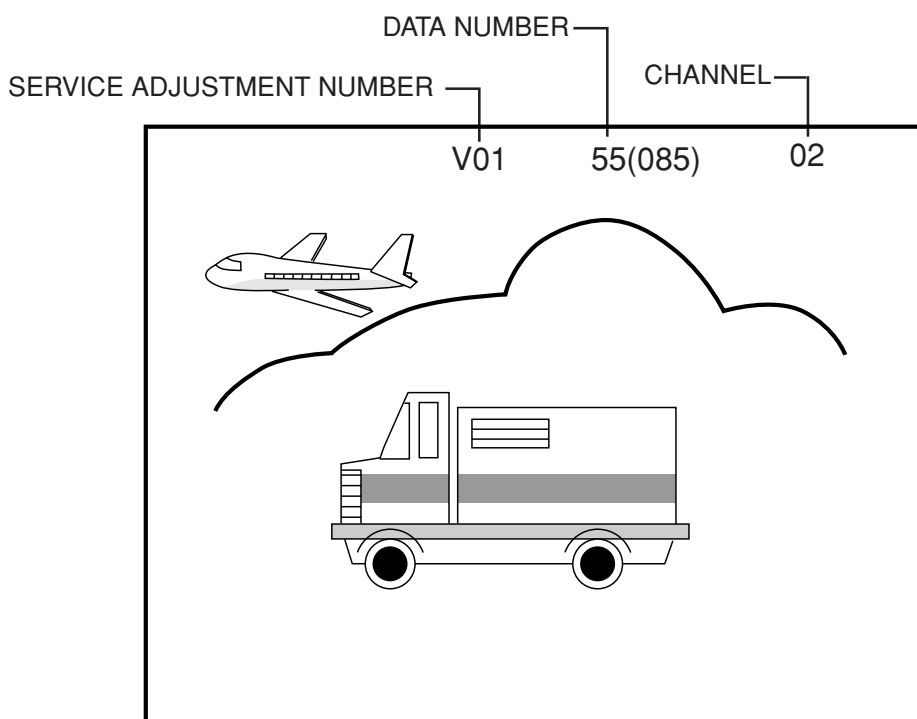


Figure A.

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		ADJUSTMENT CONTENTS
		INITIAL VALUE	RANGE	
V01	PICTURE	03	0-15(00h-0Fh)	Must be set to "10"
V02	TINT	3E	0-127(00h-7Fh)	
V03	COLOR	2D	0-127(00h-7Fh)	
V04	SUB-COLOR	10	0-31(00h-1Fh)	
V05	BRIGHT	4D	0-127(00h-7Fh)	
V06	R CUT-OFF	40	64-255(40h-FFh)	
V07	G CUT-OFF	40	64-255(40h-FFh)	
V08	B CUT-OFF	40	64-255(40h-FFh)	
V09	G DRIVE	40	0-127(00h-7Fh)	
V10	B DRIVE	40	0-127(00h-7Fh)	
V11	SHARP	14	0-63(00h-3Fh)	Must be set to "1E"
V12	N PHASE	01	0-3(00h-03h)	Must be set to "01"
V13	DC RESTORATION	00	0-3(00h-03h)	Must be set to "00"
V14	BLACK STRETCH	03	0-3(00h-03h)	Must be set to "03"
V15	ABL START POINT	03	0-3(00h-03h)	Must be set to "03"
V16	ABL GAIN	02	0-3(00h-03h)	Must be set to "02"
V17	γ POINT	00	0-3(00h-03h)	Must be set to "00"
V18	Y-MUTE/V-STOP	00	0-2	Must be set to "00"
V19	ENERGY SAVE	28	0-63(00h-3Fh)	Must be set to "28"
V20	RTONE-G	F6	0-255(00h-FFh)	Must be set to "F6"
V21	RTONE-B	F6	0-255(00h-FFh)	Must be set to "F6"
V22	BTONE-G	00	0-255(00h-FFh)	Must be set to "00"
V23	BTONE-B	0A	0-255(00h-FFh)	Must be set to "0A"
V24	LOW-G	F7	0-255(00h-FFh)	Must be set to "F7"
V25	LOW-B	E8	0-255(00h-FFh)	Must be set to "E8"
V26	ML-G	00	0-255(00h-FFh)	Must be set to "00"
V27	ML-B	F9	0-255(00h-FFh)	Must be set to "F9"
V28	HIGH-G	03	0-255(00h-FFh)	Must be set to "03"
V29	HIGH-B	06	0-255(00h-FFh)	Must be set to "06"
V30	WPS	01	0-1	Must be set to "01"
V31	RGB CONTRAST	20	0-63(00h-3Fh)	Must be set to "2A"
V32	Y-DL	02	0-7(00h-07h)	Must be set to "02"
V33	Y-DL-INPUT	01	0-7(00h-07h)	Must be set to "01"
V34	VSM GAIN	07	0-7(00h-07h)	Must be set to "07"
V35	N COMB	01	0-1	Must be set to "01"
V36	BPF/TOF-INPUT	00	0-1	Must be set to "00"
V37	CORING	00	0-1	Must be set to "00"
V38	VSM PHASE	00	0-1	Must be set to "00"
V39	COLOR γ	00	0-1	Must be set to "00"
V40	SHARP-INPUT	14	0-63(00h-3Fh)	Must be set to "1E"
V41	TINT-INPUT	3E	0-127(00h-7Fh)	Must be set to "10"
V42	PICTURE-COMPONENT	03	0-15(00h-0Fh)	
V43	TINT-COMPONENT	10	0-31(00h-1Fh)	
V44	COLOR-COMPONENT	30	0-127(00h-7Fh)	
V45	BRIGHT-COMPONENT	4A	0-127(00h-7Fh)	
V46	R CUT OFF-COMPONENT	40	64-255(40h-FFh)	
V47	G CUT OFF-COMPONENT	40	64-255(40h-FFh)	
V48	B CUT OFF-COMPONENT	40	64-255(40h-FFh)	
V49	G DRIVE-COMPONENT	40	0-127(00h-7Fh)	
V50	B DRIVE-COMPONENT	40	0-127(00h-7Fh)	
V51	SHARP COMPONENT	14	0-63(00h-3Fh)	Must be set to "1E"
V52	N PHASE-COMPONENT	01	0-3(00h-03h)	Must be set to "01"
V53	C-TRAP	00	0-1	Must be set to "00"
R01	RF-AGC	24	0-63(00h-3Fh)	—
R02	PIF VCO coil	—	—	
R03	RF-AGC REF	5C	0-255(00h-FFh)	
D01	V POSITION	00	0-7(00h-07h)	Must be set to "08"
D02	H POSITION	10	0-31(00h-1Fh)	
D03	V SIZE	12	0-63(00h-3Fh)	
D04	H SIZE	1F	0-63(00h-3Fh)	
D05	V-LINEARITY	07	0-15(00h-0Fh)	
D06	V-S CORRECTION	08	0-15(00h-0Fh)	
D07	EW PARABOLA	21	0-63(00h-3Fh)	
D08	EW TRAPEZIUM	0E	0-31(00h-1Fh)	
D09	EW CORNER	0C	0-15(00h-0Fh)	
D10	AFC GAIN	02	0-3(00h-03h)	Must be set to "02"
D11	V EHT	07	0-7(00h-07h)	Must be set to "07"
D12	H EHT	03	0-7(00h-07h)	Must be set to "03"

Table - A

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		ADJUSTMENT CONTENTS
		INITIAL VALUE	RANGE	
EX1	FAO VOLUME	24	0-50(00h-32h)	Must be set to "24"
EX2	CC-POSITION	21	0-127(00h-7Fh)	
EX3	INT	7A	0-255(00h-FFh)	
EX4	A-ATT	5A	0-127	
OP1	OPTION1	BA	0-255(00h-FFh)	Must be set to "B0"
OP2	OPTION2	01	0-7(00h-07h)	Must be set to "31"
M01	INPUT LEVEL	09	0-15(00h-0Fh)	Must be set to "09"
M02	MTS VCO	24	0-63(00h-3Fh)	
M03	FILTER	1F	0-63(00h-3Fh)	
M04	WIDEBAND	18	0-63(00h-3Fh)	
M05	SPECTRAL	10	0-63(00h-3Fh)	
P01	CONTRAST-PIP	32	0-127(00h-7Fh)	Must be set to "29"
P02	TINT-PIP	29	0-63(00h-3Fh)	
P03	COLOR-SAT-PIP	32	0-127(00h-7Fh)	Must be set to "09"
P04	Y-OFFSET-PIP	09	0-31(00h-1Fh)	
P05	HXA-PIP	0A	0-255(00h-FFh)	Must be set to "0A"
P06	HADJ-PIP	00	0-15(00h-0Fh)	Must be set to "00"
P07	FREE RUN-PIP	0B	0-15(00h-0Fh)	Must be set to "0B"
P08	TINT-PIP-INPUT	24	0-63(00h-3Fh)	Must be set to "24"

Table - A

Holding down both the VOL-up and CH-up buttons on the TV set at service mode for more than 2 seconds will automatically write the above initial values into IC2102.

PART REPLACED	ADJUSTMENT		NOTES
	NECESSARY	UNNECESSARY	
IC2001		X	Data is stored in IC2102.
IC201	X		The adjustment is needed to compensate for characteristics of parts including IC201 and MTS level (M01).
IC2102	X		Holding down both the VOL-up and CH-up buttons on the TV set in the service mode for more than 2 seconds will automatically write the above initial values into IC2102. Then perform a complete adjustment.
CRT	X		Adjust items related to picture tube only.
IC3001	X		Adjust items related to MTS only (M01~M05).

Table - B

SERVICE ADJUSTMENT

VCO Adjustment

1. Connect a digital voltmeter between pin (55) of IC201 and ground.
2. Receive a good local channel.
3. Enter the service mode and select the service adjustment "R02".
4. Adjust T201 so that digital voltmeter reads $2.5 \pm 1.0 \text{VDC}$.
5. Adjustment is completed, remove the voltmeter, return to "normal" mode.

RF AGC Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "R01".
3. Set the data value to point where no noise or beat appears.
4. Select another channel to confirm that no noise or beat appears.

Note 1 : You will have to come out of the service mode to select another channel.

Note 2 : Setting the data to "00" will produce a black raster.

Screen Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "V03" and set the data value to "00" to set the color level to minimum. (Record original data code under adjustment "V03" before changing) You may skip this step, if you selected a B/W picture or monoscope pattern.
3. Select the service adjustment "V18" and adjust the data value to "01", this turn off the luminance signal (Y-mute).
4. Adjust the master screen control until the raster darkens to the point where raster is barely seen.
5. Adjust the service adjustments "V06" red, "V07" green and "V08" blue to obtain a good grey scale with normal whites at low brightness level.
6. Select the service adjustment "V18" and reset data to "00". Select the service adjustment "V03" and reset data to obtain normal color level.
7. For component input, the data value of "V46" red, "V47" green and "V48" blue is adjusted to follow the data value of "V06", "V07" and "V08" respectively.
8. Reset the master screen control to obtain normal brightness range.

White Balance Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "V03" and set to "00" (minimum color)(Record original data code under adjustment "V03" before changing). "V03" does not have to be adjusted, if you selected a B/W picture or monoscope pattern.
3. Alternately adjust the service adjustment data of "V09" and "V10" until a good grey scale with normal whites is obtained. (RF Input)
4. For component input, the data value of "V49" and "V50" is adjusted to follow the data value of "V09" and "V10" respectively.
5. Select the service adjustment "V03" and reset data to obtain normal color level.

Picture Adjustment

1. Receive a good local channel.
2. Make sure the customer picture control is set to maximum.
3. Enter the service mode and select the service adjustment "V01".
4. Adjust the data value to achieve normal contrast range.

Tint Adjustment

1. Receive a good local channel.
2. Set customer tint control to center of it's range.
3. Enter the service mode and select the service adjustment "V02".
4. Adjust "V02" data value to obtain normal flesh tones.
5. Input same data to "V41".

Sub-Color Adjustment

1. Receive a good local channel.
2. Make sure the customer color control is set to center position .
3. Enter the service mode and select service adjustment "V04".
4. Adjust "V04" data value to obtain normal color level.

Brightness Adjustment

1. Receive a good local channel.
2. Make sure the customer brightness control is set to center position.
3. Enter the service mode and select the service adjustment "V05".
4. Adjust "V05" data value to obtain normal brightness level.

Vertical-Size and Linearity Adjustments

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "D03" for V-size.
3. Adjust the "D03" bus data to get the proper V-size.
4. For V-linearity adjustment, select data bus "D05" and adjust to get the proper vertical linearity.

Note: Aging for 10 min before adjustment. After the adjustment of V-center and V-size, re-adjustment for this V-line.

Vertical Phase Adjustment

1. Enter the service mode and select the service adjustment "D01".
2. Adjust "D01" data value so that picture is centered.

Horizontal Position Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "D02".
3. Adjust "D02" data value so that picture is centered.

Caption Position Adjustment (Horizontal)

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "EX2".
3. A black text box appears on the screen. (see **Figure B.** below)
4. Adjust "EX2" data value so that text box is positioned in the center of the screen.

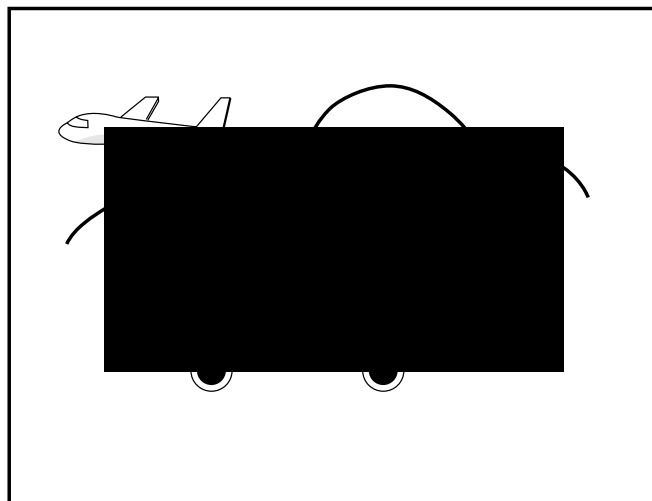


Figure B.

Horizontal-Size Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "D04" for H-size.
3. Adjust the "D04" bus data to get the proper H-size.

EW-Parabola

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "D07" for EW parabola.
3. Adjust the "D07" bus data to get the proper vertical straight line for both left and right side.

EW-Trapezium

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "D08" for EW-Trapezium.
3. Adjust the "D08" bus data to get the best position display.

EW-Corner

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "D09" for EW-Corner.
3. Adjust the "D09" bus data to get the best linearity for 4 corner points.

Other Adjustments

1. Enter the service mode.
2. Adjust the following data values as listed below.

SERVICE POSITION	ADJUST ITEM	DATA(Hex)
		32R-S60
OP1	OPTION1	B0
OP2	OPTION2	31

■ MTS ADJUSTMENT

MTS Level Adjustment

1. Receive the following composite signal.
Monaural signal: 400Hz, 100% modulation
2. Connect the rms voltmeter to pin (39) of IC3001.
3. Enter the service mode and select the service adjustment "M01" and set to "09".
4. Enter the service mode and select the service adjustment "EX4".
5. Adjust the data so that the rms voltmeter reads 490 ± 10 mVrms.

MTS VCO Adjustment

1. Keep the unit in no-signal state.
2. Connect the frequency counter to pin (39) of IC3001.
3. Connect a capacitor (100 μ F, 50V) in between positive(+) side of C3005 and ground.
4. Enter the service mode and select the service adjustment "M02"
5. Adjust the data so that the frequency counter reads 62.94 ± 0.75 kHz.

Filter Adjustment

1. Feed the following stereo pilot signal to pin (14) of IC3001 .
Stereo pilot signal: 9.4kHz, 600mVrms.
2. Enter the service mode and select the service adjustment "M03".
3. Adjust the data until "OK" appears in position on the screen. Make sure the "OK" is displayed almost at the center of the data range.

Separation Adjustment

1. Connect the rms voltmeter to pin (39) of IC3001.
2. Receive the following composite stereo signal 1.
Composite stereo signal: 30% modulation, left channel only, noise reduction on, 300Hz
3. Enter the service mode and select the service adjustment "M04".
4. Adjust the data until the AC voltage reading of the RMS voltmeter is minimum.
5. Receive the following composite stereo signal 2.
Stereo signal: 30% modulation, left channel only, noise reduction on, 3kHz
6. Enter the service mode and select the service adjustment "M05".
7. Adjust the data until the AC voltage reading of the rms voltmeter is minimum.
8. Take the above steps 1 thru 7 again for fine adjustment.

CHASSIS LAYOUT

H

G

F

E

D

C

B

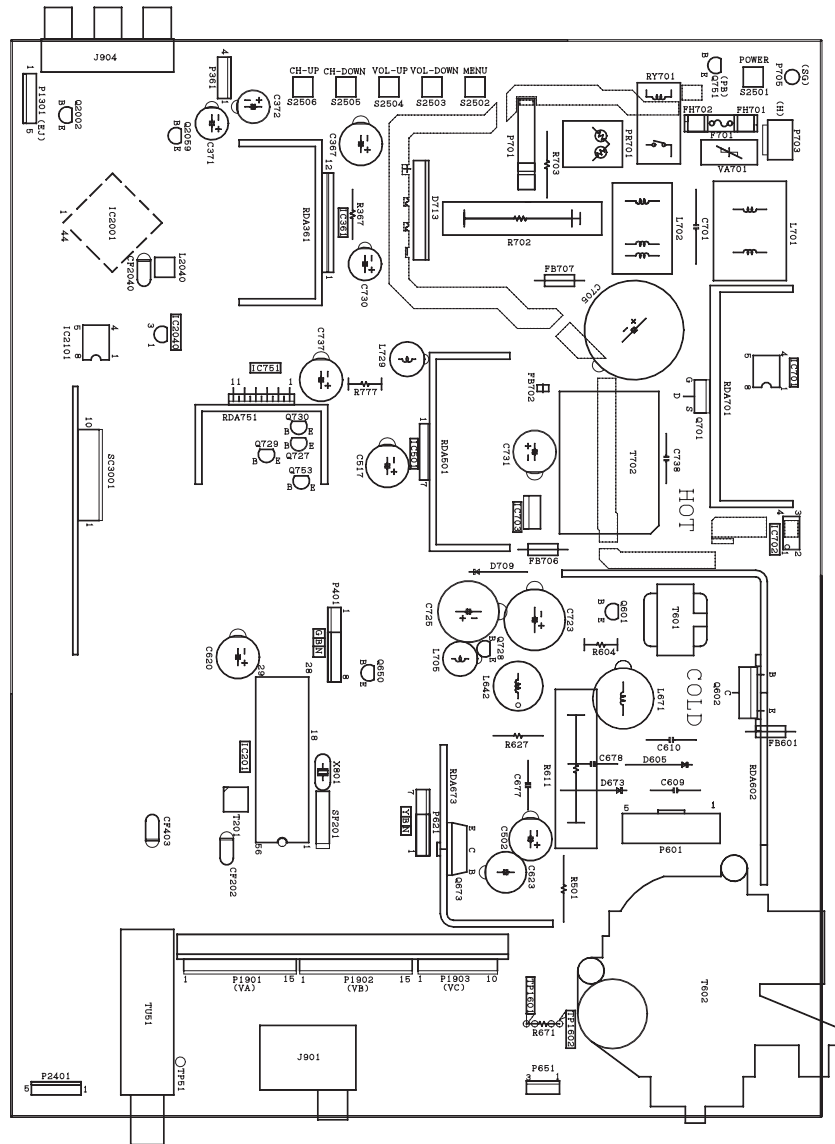
A

PWB - A
DUNTKA526WE
MAIN

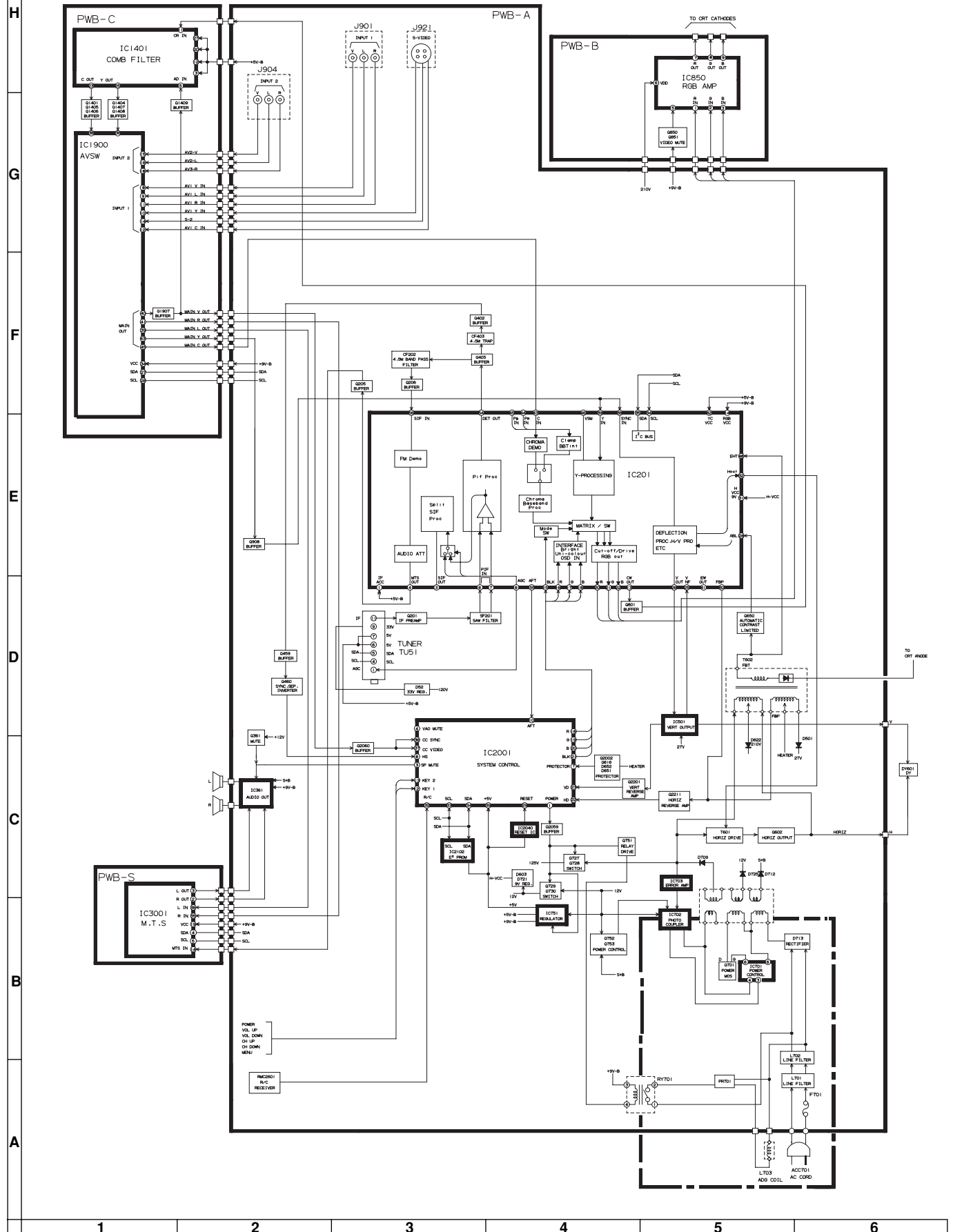
PWB - S
DUNTKA070WE
MTS

PWB - C
DUNTKA528WE
AV

PWB - B
DUNTKA527WE
CRT



BLOCK DIAGRAM



DESCRIPTION OF SCHEMATIC DIAGRAM

NOTES:

1. The unit of resistance "ohm" is omitted.
($K=k\Omega=1000\Omega$, $M=M\Omega$)
2. All resistors are 1/8 watt, unless otherwise noted.
3. All capacitors are μF , unless otherwise noted.
($P=pF=\mu\mu F$)
4. (G) indicates $\pm 2\%$ tolerance may be used.
5. $\overline{\text{---}}$ indicates line isolated ground.

VOLTAGE MEASUREMENT CONDITIONS:

1. All DC voltages are measured with DVM connected between points indicated and chassis ground, line voltage set at 120V AC and all controls set for normal picture unless otherwise indicated.
2. All voltages measured with 1000 μ V B & W or Color signal.

WAVEFORM MEASUREMENT CONDITIONS:

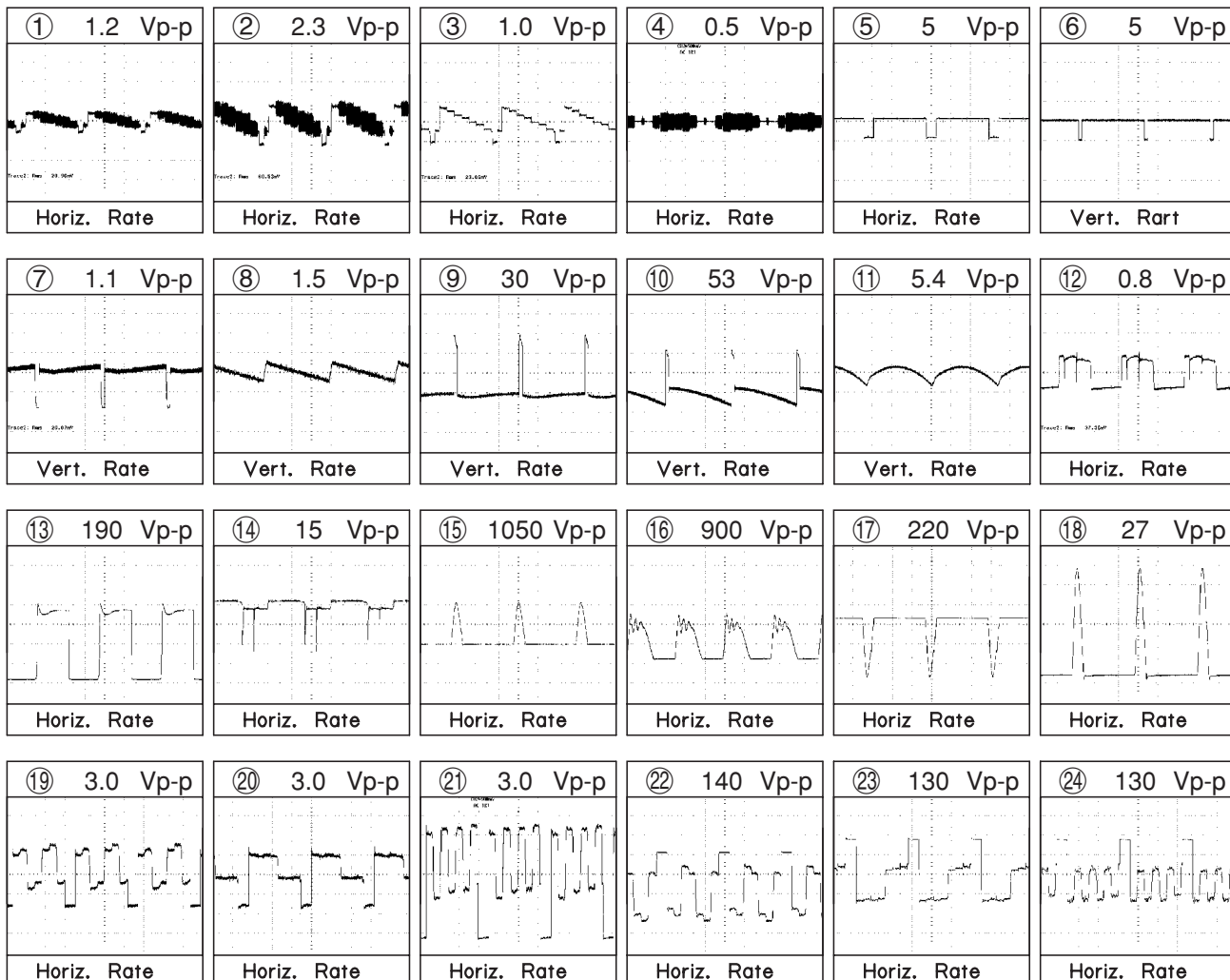
1. Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.
2. \bullet indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)

\triangle AND SHADED () COMPONENTS
= SAFETY RELATED PARTS.

\blacktriangle MARK= X-RAY RELATED PARTS.

This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.

WAVEFORMS



A B C D E F G H I J



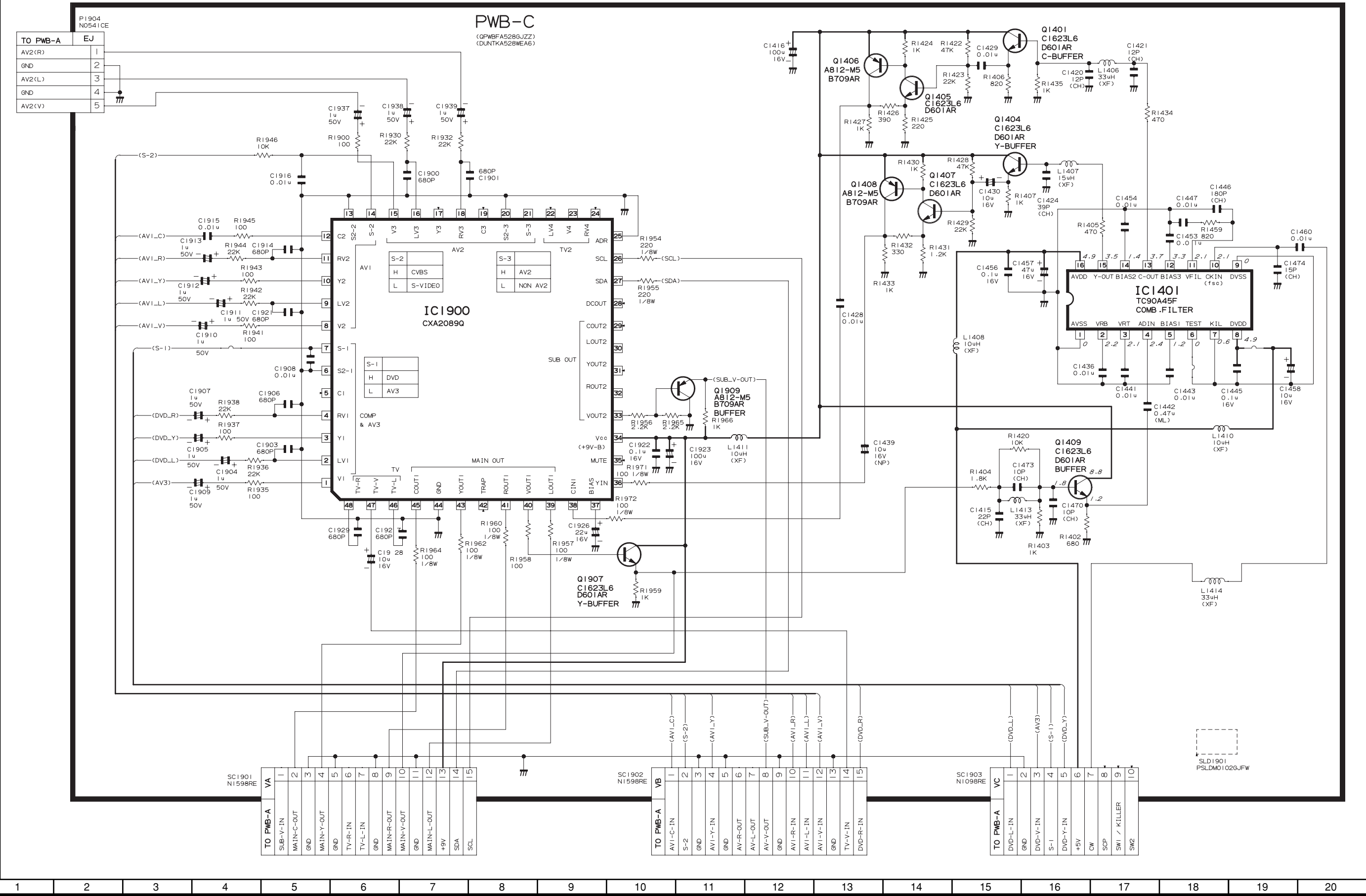
J
I
H
G
F
E
D
C
B
A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

SCHEMATIC DIAGRAM: AV Unit

- NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2. ALL RESISTORS ARE 1/16 WATT, UNLESS OTHERWISE NOTED.
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).

AV-COMB (2 LINE)



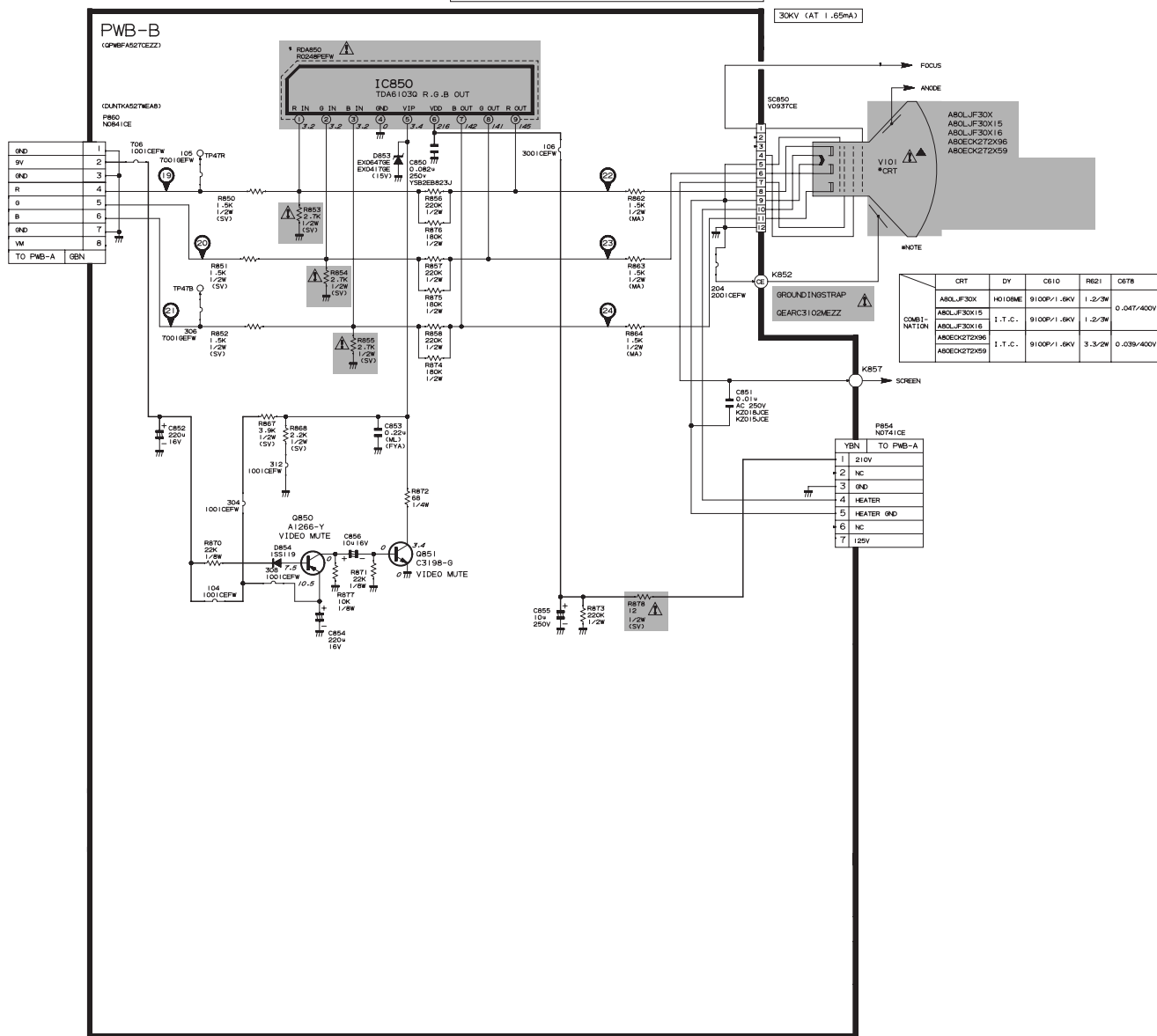
SCHEMATIC DIAGRAM: CRT Unit

H
G
F
E
D
C
B
A

AND SHADED COMPONENTS
 = SAFETY RELATED PARTS.
 ▲ MARK = X-RAY RELATED PARTS.

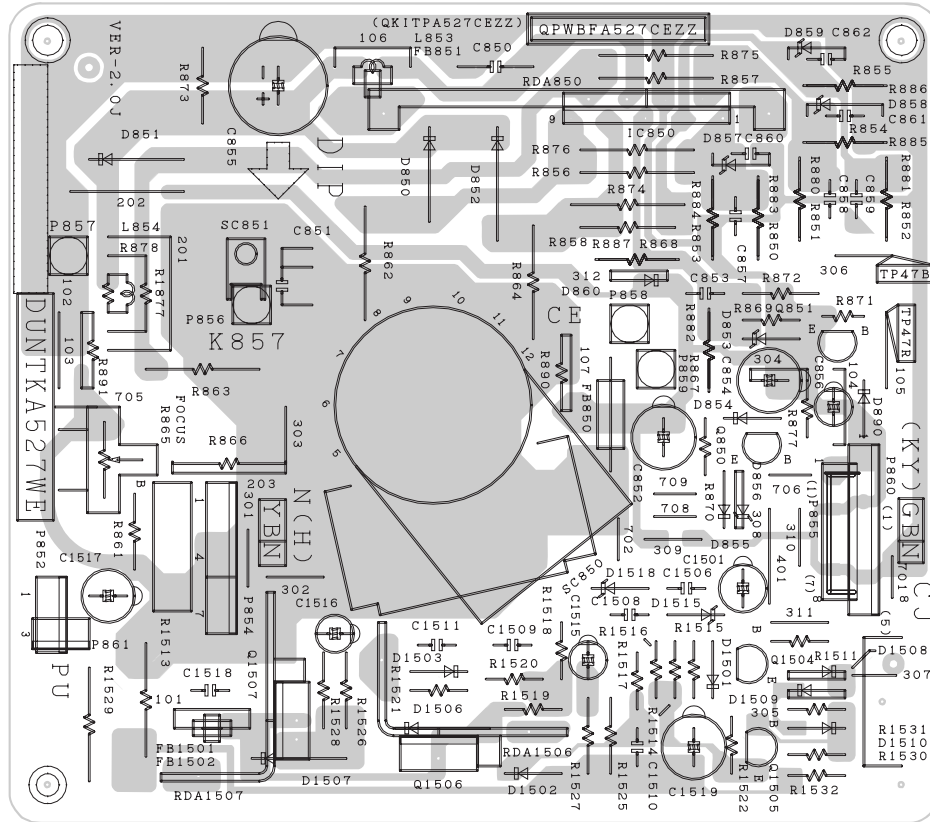
REPLACE WITH A PICTURE
 TUBE OF THE SAME TYPE
 NUMBER FOR CONTINUED
 SAFETY.

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED
 (K=1000 OHMS, M=MEGAOHM).
 2. THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
 (u, P, ETC.).

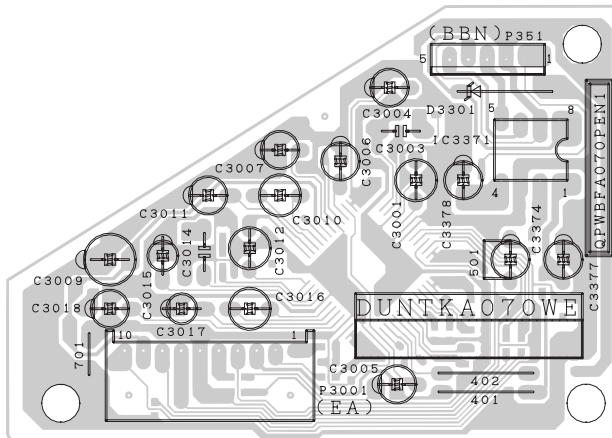


1 2 3 4 5 6

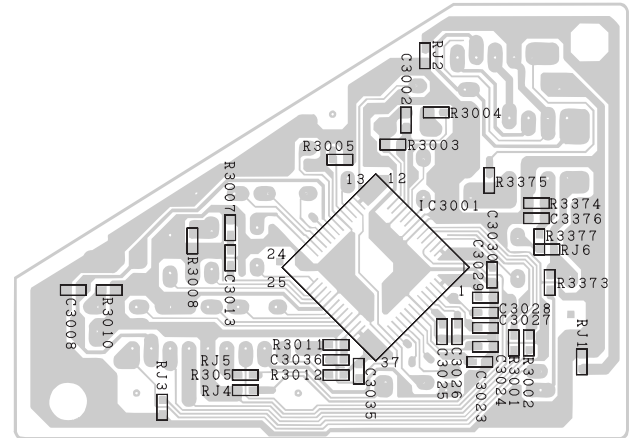
PRINTED WIRING BOARD ASSEMBLIES



PWB-B: CRT Unit (Wiring Side)



PWB-S: MTS MODULE Unit
(Wiring Side)



PWB-S: MTS MODULE Unit
(Chip Parts Side)



1	2	3	4	5	6
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PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by Δ and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does not have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |

in **USA**: Contact your nearest SHARP Parts Distributor to order.
For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

★ MARK: SPARE PARTS-DELIVERY SECTION

▲ MARK : X- RAY RELATED PARTS

Ref. No.	Part No.	★	Description	Code
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PICTURE TUBE

▲ Δ V101	VB80LJF3016*S	X	Picture Tube	CT
▲ Δ DY601	RCiLH0108MEZZ	X	Deflection Yoke	AZ
▲ L703	RCiLG0121GJZZ	X	Degaussing Coil	AU
	MSPRT0002MEZZ	X	Spring for CRT	AE
	QEARC3102MEZZ	X	Grounding Strap	AG

	CRT	DY	C610	R621	C678
COMBINATION	AB0LXJF30X	H0108ME	9100P/1.6KV	1.2/3W	0.047 μ /400V
	AB0LJF30X15				
	AB0LJF30X16	I.T.C.	9100P/1.6KV	1.2/3W	
	AB0ECK272X96				
	AB0ECK272X59	I.T.C.	9100P/1.6KV	3.3/2W	0.039 μ /400V

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

PWB-A DUNTKA526WEC0	— MAIN Unit	—
PWB-B DUNTKA527WEA8	— CRT Unit	—
PWB-C DUNTKA528WEA6	— AV Unit	—
PWB-S DUNTKA070WEV3	— MTS MODULE Unit	—

Ref. No.	Part No.	★	Description	Code
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PWB-A: DUNTKA526WEC0 MAIN UNIT

TUNER

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

▲ TU51	VTUVTST5UF770	J	VHF Tuner	AZ
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INTEGRATED CIRCUITS

▲ IC201	RH-iX3395CEN2	J	TB1252CN	AY
▲ IC361	VHiAN5276/-1	J	AN5276	AR
▲ IC501	VHiTA8427K/-1	J	TA8427K	AL
IC680	VHiKiA358P+-1	X	KIA358P	AF
▲ IC701	VHiTEA1507/-1	J	TEA1507P/N1	AL
▲ IC702	RH-FX0008GEZZ	J	PC123FY8	AE
▲ IC703	VHiSE125N/-1	X	SE125N	AK
IC751	VHiSTV8164+-1	X	STV8164-AS	AM
IC2001	RH-iX3515CEN2	X	TMPA8700CPF-3F	AT
IC2040	VHiKiA7045A-1	J	KIA7045AP	AE
	or			
	VHiKiA7045P-1			
IC2101	VHiM24C16B/-1	J	M24C16-BN6	AG

TRANSISTORS

Q201	VS2SC2735//1E	J	C2735	AC
Q205	VS2PD601AR/-1	J	D601AR	AB
	or			
	VS2PC1623L61E			
Q206	VS2PD601AR/-1	J	D601AR	AB
	or			
	VS2PC1623L61E			
Q361	VS2PB709AR/-1	J	B709AR	AB
	or			
	VS2PA812-M51E			
Q402	VS2PB709AR/-1	J	B709AR	AB
	or			
	VS2PA812-M51E			
Q405	VS2PD601AR/-1	J	D601AR	AB
	or			
	VS2PC1623L61E			
Q459	VS2PB709AR/-1	J	B709AR	AB
	or			
	VS2PA812-M51E			
Q460	VS2PB709AR/-1	J	B709AR	AB
	or			
	VS2PA812-M51E			
Q601	VS2SC2482//1E	J	C2482	AD
▲ Q602	VS2SD2646++1E	X	D2646++	AP
	or			
	VS2SD2500++1E			
	or			
	VS2SD2581++1E			
Q616	VS2PD601AR/-1	J	D601AR	AB
	or			
	VS2PC1623L61E			
Q634	VS2SC3198-G-1	J	C3198-G	AA
Q650	VS2SA1266-Y-1	J	A1266-Y	AA
Q672	VS2SA1266-Y-1	J	A1266-Y	AA
Q673	VS2SD2045//1E	J	D2045	AL
▲ Q701	VSST9NC60FP1E	X	ST9NC60FP	AP
Q727	VS2SC3333//1E	J	C3333	AG
Q728	VS2SA1091-O1A	J	A1091-O	AA
Q729	VS2SA1266-Y-1	J	A1266-Y	AA
Q730	VS2SC3198-G-1	J	C3198-G	AA
Q751	VS2SC3198-G-1	J	C3198-G	AA
Q752	VS2PD601AR/-1	J	D601AR	AB
	or			
	VS2PC1623L61E			
Q753	VS2SC3198-G-1	J	C3198-G	AA
Q801	VS2PD601AR/-1	J	D601AR	AB
	or			
	VS2PC1623L61E			
Q908	VS2PD601AR/-1	J	D601AR	AB
	or			

Ref. No.	Part No.	★	Description	Code								
PWB-A: DUNTKA526WEC0												
MAIN UNIT												
	VS2PC1623L61E											
Q2002	VS2SA1266-Y-1	J	A1266-Y	AA								
Q2059	VS2SC3198-G-1	J	C3198-G	AA								
Q2060	VS2PD601AR/-1	J	D601AR	AB								
	or											
	VS2PC1623L61E											
Q2201	VS2PD601AR/-1	J	D601AR	AB								
	or											
	VS2PC1623L61E											
Q2211	VS2PD601AR/-1	J	D601AR	AB								
	or											
	VS2PC1623L61E											
DIODES												
D52	RH-EX0676GEZZ	J	Zener Diode, 32V	AA								
D53	RH-EX0619GEZZ	J	Zener Diode, 6.2V	AA								
D361	VHD1SS119//-1	J	Diode	AB								
D362	VHD1SS119//-1	J	Diode	AB								
△ D501	RH-DX0302CEZZ	J	Diode	AC								
D510	RH-DX0441CEZZ	J	Diode	AC								
D511	RH-EX0654CEZZ	J	Zener Diode, 75V	AD								
D603	RH-EX0631GEZZ	J	Zener Diode, 9.1V	AA								
△ D605	RH-DX0255CEZZ	J	Diode	AC								
D615	RH-EX0665GEZZ	J	Zener Diode, 25V	AA								
D621	RH-EX0631GEZZ	J	Zener Diode, 9.1V	AA								
△ D622	RH-DX0131CEZZ	J	Diode	AC								
D650	RH-EX0628GEZZ	J	Zener Diode, 8.2V	AC								
▲ △ D651	VHD1SS244//-1	J	Diode	AB								
	or											
	VHD1SS82///1A											
▲ △ D652	RH-EX0641GEZZ	J	Zener Diode, 12V	AA								
▲ △ D653	VHD1SS119//-1	J	Diode	AB								
D657	VHD1SS119//-1	J	Diode	AB								
△ D673	RH-DX0229CEZZ	J	Diode	AF								
D707	VHD1SS119//-1	J	Diode	AB								
	or											
	VHD1SS244//-1											
D708	VHD1SS119//-1	J	Diode	AB								
	or											
	VHD1SS244//-1											
△ D709	RH-DX0229CEZZ	J	Diode	AF								
△ D712	RH-DX0468CEZZ	J	Diode	AE								
△ D713	RH-DX0477CEZZ	J	Diode	AF								
D716	VHD1SS119//-1	J	Diode	AB								
D717	RH-EX0650GEZZ	J	Zener Diode, 16V	AB								
D721	VHD1SS119//-1	J	Diode	AB								
	or											
	VHD1SS244//-1											
△ D725	RH-DX0407CEZZ	J	Diode	AD								
	or											
	RH-DX0468CEZZ											
D755	VHD1SS119//-1	J	Diode	AB								
D2402	RH-EX0619GEZZ	J	Zener Diode, 6.2V	AA								
D2403	RH-EX0619GEZZ	J	Zener Diode, 6.2V	AA								
△ VA701	RH-VX0048CEZZ	J	Varistor	AE								
PACKAGED CIRCUITS												
△ PR701	RMPTP0072CEZZ	J	Packaged Circuit	AH								
X801	RCRSB0278CEZZ	J	Crystal	AG								
<table><tr><td></td><td>PR701</td><td>L703</td></tr><tr><td rowspan="2">COMBI- NATION</td><td>P0072CE (3ROM)</td><td>G0051ME C1L60118GJ</td></tr><tr><td>P0059CE (5ROM)</td><td>G0034ME G0028ME</td></tr></table>						PR701	L703	COMBI- NATION	P0072CE (3ROM)	G0051ME C1L60118GJ	P0059CE (5ROM)	G0034ME G0028ME
	PR701	L703										
COMBI- NATION	P0072CE (3ROM)	G0051ME C1L60118GJ										
	P0059CE (5ROM)	G0034ME G0028ME										
FILTERS AND COILS												
CF202	RFiLC0447CEZZ	J	Ceramic Filter	AD								
CF403	RFiLC0446CEZZ	J	Ceramic Filter	AD								
CF2040	RFiLA0099CEZZ	J	Ceramic Filter	AE								
L51	VP-CF100K0000	J	Peaking 10uH	AB								

Ref. No.	Part No.	★	Description	Code
L201	VP-XF1R2K0000	J	Peaking 1.2μH	AB
L203	VP-DF100K0000	J	Peaking 10μH	AB
L401	VP-XF100K0000	J	Peaking 10μH	AB
L642	RCiLZ1027CEZZ	X	Coil	AH
	or			
	RCiLZ0798CEZZ			
L671	RCiLZ1005CEZZ	J	Coil	AH
△ L701	RCiLF0313CEZZ	J	Coil	AH
	or			
	RCiLF0345CEZZ			
	or			
△ L702	RCiLF0273CEZZ	J	Coil	AH
	RCiLF0313CEZZ			
	or			
	RCiLF0345CEZZ			
	or			
	RCiLF0273CEZZ			
	or			
	RCiLF0025PEZZ			
L705	RCiLP0179CEZZ	J	Coil	AD
L729	RCiLP0179CEZZ	J	Coil	AD
L801	VP-DF100K0000	J	Peaking 10μH	AB
L802	VP-DF6R8K0000	J	Peaking 6.8μH	AB
L2040	RCiLB0131CEZZ	J	Oscillation Coil	AE
SF201	RFiLC0405CEZZ	J	SAW Filter	AH
TRANSFORMERS				
T201	RCiLi0636CEZZ	X	If Coil	AH
△ T601	RTRNZ0057PEZZ	J	Transformer	AK
▲ △ T602	RTRNF0035MEZZ	X	H-Volt Transformer	AY
	or			
	RTRNF0046MEZZ			
△ T702	RTRNW0005GJZZ	X	Transformer	AP
CAPACITORS				
[EL... Electrolytic, M-Poly... Metalized Polypro Film]				
C53	VCEAOA1HW105M	J	1.0 50V EL.	AB
C54	VCEAOA1HW475M	J	4.7 50V EL.	AB
C55	VCEAOA1AW228M	J	2200 10V EL.	AD
C201	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C202	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C203	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C204	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C223	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C224	VCEAOA1HW475M	J	4.7 50V EL.	AB
C225	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C226	VCEAOA1HW224M	J	0.22 50V EL.	AB
C227	VCEAOA1CW226M	J	22 16V EL.	AB
C228	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C229	VCEAOA1AW228M	J	2200 10V EL.	AD
C230	VCEAOA1HW225M	J	2.2 50V EL.	AB
C231	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C232	VCEAOA1HW474M	J	0.47 50V EL.	AB
C233	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C361	VCEAOA1HW105M	J	1.0 50V EL.	AB
C362	VCQYTA1HM123J	J	0.012 50V Mylar	AA
C363	VCQYTA1HM123J	J	0.012 50V Mylar	AA
C364	VCEAOA1EW227M	J	220 25V EL.	AB
C365	VCEAOA1HW105M	J	1.0 50V EL.	AB
C366	VCEAOA1CW106M	J	10 16V EL.	AB
C367	VCEAOA1VW108M	J	1000 35V EL.	AD
C368	VCKYPA1HF103Z	J	0.01 50V Ceramic	AA
C369	VCEAOA1CW227M	J	220 16V EL.	AC
C370	VCEAOA1CW227M	J	220 16V EL.	AC
C371	VCEAOA1EW108M	J	1000 25V EL.	AD
C372	VCEAOA1EW108M	J	1000 25V EL.	AD
C373	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C374	VCEAOA1HW225M	J	2.2 50V EL.	AB
C375	VCEAOA1HW225M	J	2.2 50V EL.	AB
C419	VCKYCY1CF224Z	J	0.22 16V Ceramic	AA
C420	VCEAOA1CW476M	J	47 16V EL.	AB
C425	VCEAOA1HW105M	J	1.0 50V EL.	AB
C426	VCKYCY1HB682K	J	6800p 50V Ceramic	AA
C429	VCQYTA1HM103J	J	0.01 50V Mylar	AA
C433	VCKYCY1HB103K	J	0.01 50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
PWB-A: DUNTKA526WECO									
MAIN UNIT									
C434	VCEA0A1HW105M	J	1.0 50V EL.	AB	C731	RC-EZ0385CEZZ	J	1000 16V EL.	AE
C435	VCQYTA1HM104J	J	0.1 50V Mylar	AA	C732	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C462	VCKYCY1CB473K	J	0.047 16V Ceramic	AA	C735	VCEA0A1CW106M	J	10 16V EL.	AB
C501	VCKYPA2HB102K	J	1000p 500V Ceramic	AA	C736	VCEA0A1CW106M	J	10 16V EL.	AB
C502	VCEA0A1VW108M	J	1000 35V EL.	AD	C737	VCEA0A1CW107M	J	100 16V EL.	AC
C510	VCFYSA1JB564J	J	0.56 63V Mylar	AE	C738	VCFPVC3CA722H	J	7200p 1.6kV M-Poly.	AF
C511	VCKYPA2HB391K	J	390p 500V Ceramic	AA	C740	VCEA0A1EW476M	J	47 25V EL.	AB
C512	VCQYTA1HM683J	J	0.068 50V Mylar	AB	C741	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C513	VCQYTA1HM103J	J	0.01 50V Mylar	AA	C742	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C514	VCEA0A1VW107M	J	100 35V EL.	AC	C744	VCEA0A0JW107M	J	100 6.3V EL.	AB
C515	VCEACA1HC225J	J	2.2 50V EL.	AC	C756	VCEA0A1CW476M	J	47 16V EL.	AB
C516	VCEACA1HC225J	J	2.2 50V EL.	AC	C757	VCEA0A1CW476M	J	47 16V EL.	AB
C517	VCEA0A1VW108M	J	1000 35V EL.	AD	C780	VCEA9M1EW226M	J	22 25V EL.	AB
C519	VCFYSA1JB473J	J	0.047 63V Mylar	AC	C781	VCFYFA1HA334J	J	0.33 50V Mylar	AB
C551	VCEA0A1HW474M	J	0.47 50V EL.	AB	C784	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C552	VCKYCY1HB392K	J	3900p 50V Ceramic	AA	C787	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C553	VCKYCY1HB392K	J	3900p 50V Ceramic	AA	C801	VCCCCY1HH110J	J	11p 50V Ceramic	AA
C605	VCKYCY1HB102K	J	1000p 50V Ceramic	AA	C802	VCKYCY1HB222K	J	2200p 50V Ceramic	AA
C606	VCKYPA2HB561K	J	560p 500V Ceramic	AA	C803	VCEA0A1HW224M	J	0.22 50V EL.	AB
C607	VCKYPA1HB472K	J	4700p 50V Ceramic	AA	C804	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C608	RC-KZ0033CEZZ	J	150p 2kV Ceramic	AB	C805	VCEA0A1CW337M	J	330 16V EL.	AC
▲▲ C609	VCFPVC3ZA912H	J	9100p 1.8kV M-Poly.	AE	C806	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
▲▲ C610	VCFPVC3ZA912H	J	9100p 1.8kV M-Poly.	AE	C807	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C614	VCKYPA2HB272K	J	2700p 500V Ceramic	AA	C808	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C615	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA	C809	VCEA0A1CW106M	J	10 16V EL.	AB
C616	VCEA0A1HW224M	J	0.22 50V EL.	AB	C810	VCEA0A1CW106M	J	10 16V EL.	AB
C617	VCEA0A1HW474M	J	0.47 50V EL.	AB	C811	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C618	VCKYCY1HB822K	J	8200p 50V Ceramic	AB	C812	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C619	VCKYCY1HB103K	J	0.01 50V Ceramic	AA	C813	VCEA0A1CW107M	J	100 16V EL.	AC
C620	VCEA0A1CW477M	J	470 16V EL.	AC	C814	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C623	VCEA4A2EN106M	J	10 250V EL.	AD	C816	VCEA0A1CW107M	J	100 16V EL.	AC
C624	VCKYPA2HB102K	J	1000p 500V Ceramic	AA	C945	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C627	VCEA0A1HW106M	J	10 50V EL.	AB	C960	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB
C631	VCKYPA1HB331K	J	330p 50V Ceramic	AA	C961	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB
C632	VCEA0A1VW107M	J	100 35V EL.	AC	C962	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C633	VCKYPA1HB102K	J	1000p 50V Ceramic	AA	C2001	VCCCCY1HH331J	J	330p 50V Ceramic	AA
C644	VCFPVC2DB684J	X	0.68 200V M-Poly.	AG	C2003	VCEA0A1HW106M	J	10 50V EL.	AB
C647	VCKYPA2HB102K	J	1000p 500V Ceramic	AA	C2004	VCEA0A1CW476M	J	47 16V EL.	AB
C650	VCEA0A1HW105M	J	1.0 50V EL.	AB	C2005	VCEA0A1CW106M	J	10 16V EL.	AB
C651	VCQYTA2AA104K	J	0.1 100V Mylar	AB	C2040	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C652	VCEA0A1VW476M	J	47 35V EL.	AB	C2041	VCEA0A1HW105M	J	1.0 50V EL.	AB
C653	VCEA0A1HW336M	J	33 50V EL.	AB	C2042	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C654	VCFYFA1HA334J	J	0.33 50V Mylar	AB	C2043	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C674	VCCCCY1HH391J	J	390p 50V Ceramic	AA	C2044	VCQYTA1HM104J	J	0.1 50V Mylar	AA
C677	RC-FZ0377CEZZ	J	4.7 50V M-Poly.	AF	C2060	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
▲▲ C678	VQPPC2GB473J	J	0.047 400V Mylar	AB	C2061	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C684	VCEA0A1VW106M	J	10 35V EL.	AB	C2062	VCEA0A1AW107M	J	100 10V EL.	AB
C685	VCQYTA1HM333J	J	0.033 50V Mylar	AA	C2063	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C686	VCQYTA1HM104J	J	0.1 50V Mylar	AA	C2064	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
▲ C701	RC-FZ037SCEZZ	J	0.22 AC125V Mylar	AD	C2201	VCKYCY1HB681K	J	680p 50V Ceramic	AA
	or				C2202	VCCCCY1HH390J	J	39p 50V Ceramic	AA
	RC-FZ021SCEZZ				C2203	VCCCCY1HH101J	J	100p 50V Ceramic	AA
	or				C2601	VCEA0A1HW476M	J	47 50V EL.	AB
	RC-FZ029SCEZZ				C2602	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C702	RC-KZ0029CEZZ	J	0.01 500V Ceramic	AC	RESISTORS				
C703	RC-KZ0029CEZZ	J	0.01 500V Ceramic	AC	[M-Ox. ... Metal Oxide, M-Film ... Metal Film]				
▲ C705	RC-EZ0801CEZZ	X	680 200V EL.	AP	RJ11	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
	or				RJ12	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
	RC-EZ0720CEZZ				RJ13	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
▲ C706	RC-KZ021SCEZZ	J	3300p 2kV Ceramic	AE	RJ14	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
C710	RC-KZ0040CEZZ	J	820p 2kV Ceramic	AD	RJ15	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
C712	VCKYCY1HB103K	J	0.01 50V Ceramic	AA	RJ16	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
C717	VCKYPA2HB472K	J	4700p 500V Ceramic	AB	RJ18	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
C722	VCQYTA1HM104J	J	0.1 50V Mylar	AA	RJ19	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
▲ C723	RC-EZ0724CEZZ	J	100 160V EL.	AG	RJ20	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
C725	RC-EZ0810CEZZ	J	330 160V EL.	AH	RJ21	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
	or				RJ22	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
	RC-EZ1171CEZZ				RJ25	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
C726	VCKYPH3DB561K	J	560p 2kV Ceramic	AC	RJ26	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
C727	VCKYPH3DB561K	J	560p 2kV Ceramic	AC	RJ28	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
C730	VCEA4A1VN108M	J	1000 35V EL.	AD	RJ29	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
					RJ31	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
					RJ32	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA
					RJ33	VRS-CY1JF000J	J	00 1/16W M-Ox.	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
PWB-A: DUNTKA526WEC0									
MAIN UNIT									
RJ34	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R364	VRS-CY1JF561J	J 560	1/16W M-Ox.	AA
RJ35	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R365	VRS-CY1JF561J	J 560	1/16W M-Ox.	AA
RJ37	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R367	VRN-RL3DBR56J	X 0.56	2W M-Film	AE
RJ38	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R368	VRD-RA2BE222J	J 2.2k	1/8W Carbon	AA
RJ39	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R369	VRD-RA2BE822J	J 8.2k	1/8W Carbon	AA
RJ40	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R370	VRS-CY1JF122J	J 1.2k	1/16W M-Ox.	AA
RJ41	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R371	VRS-CY1JF102J	J 1.0k	1/16W M-Ox.	AA
RJ43	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R372	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
RJ44	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R415	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
RJ46	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R430	VRD-RA2BE331J	J 330	1/8W Carbon	AA
RJ52	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R431	VRS-CY1JF331J	J 330	1/16W M-Ox.	AA
RJ53	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R432	VRS-CY1JF102J	J 1.0k	1/16W M-Ox.	AA
RJ54	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R440	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA
RJ56	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R459	VRS-CY1JF102J	J 1.0k	1/16W M-Ox.	AA
RJ57	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R460	VRS-CY1JF102J	J 1.0k	1/16W M-Ox.	AA
RJ58	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R461	VRS-CY1JF151J	J 150	1/16W M-Ox.	AA
RJ60	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R462	VRS-CY1JF122J	J 1.2k	1/16W M-Ox.	AA
RJ61	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R463	VRS-CY1JF474J	J 470k	1/16W M-Ox.	AA
RJ62	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R464	VRS-CY1JF122J	J 1.2k	1/16W M-Ox.	AA
RJ63	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R465	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
RJ64	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	△ R501	VRN-RL3LB2R2J+	X 2.2	3.0W M-Film	AF
RJ65	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R510	VRD-RA2BE471J	J 470	1/8W Carbon	AA
RJ66	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R511	VRD-RA2BE393J	J 39k	1/8W Carbon	AA
RJ67	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R512	VRD-RA2BE683J	J 68k	1/8W Carbon	AA
RJ68	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R513	VRS-CY1JF273J	J 27k	1/16W M-Ox.	AA
RJ69	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R514	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
RJ70	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R520	VRS-CY1JF184J	J 180k	1/16W M-Ox.	AA
RJ71	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R523	VRN-RL3DB1R0J+	X 1.0	2W M-Film	AE
RJ72	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R524	VRS-RG3AB391J	X 390	1W M-Ox.	AE
RJ73	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R534	VRD-RA2BE181J	J 180	1/8W Carbon	AA
RJ74	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R551	VRS-CY1JF562F	J 5.6k	1/16W M-Ox.	AA
RJ76	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R578	VRD-RA2BE123J	J 12k	1/8W Carbon	AA
RJ78	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R601	VRD-RM2HD220J	J 22	1/2W Carbon	AA
RJ79	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	△ R604	VRS-KA3NG102J	J 1.0k	7.0W M-Ox.	AD
RJ80	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R605	VRD-RM2HD331J	J 330	1/2W Carbon	AA
RJ81	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R606	VRD-RM2HD271J	J 270	1/2W Carbon	AA
RJ82	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R609	VRS-RG3AB562J	X 5.6k	1W M-Ox.	AE
RJ83	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	△ R611	VRW-KQ41C3R3K	J 3.3	15W Cement	AG
RJ84	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R612	VRS-CY1JF472J	J 4.7k	1/16W M-Ox.	AA
RJ86	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R613	VRS-CY1JF474J	J 470k	1/16W M-Ox.	AA
RJ87	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R614	VRS-CY1JF395J	J 3.9M	1/16W M-Ox.	AA
RJ88	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	▲ R616	VRD-RA2BE103J	J 10k	1/8W Carbon	AA
RJ90	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	▲ R617	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
RJ94	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	▲ R618	VRS-CY1JF473J	J 47k	1/16W M-Ox.	AA
RJ95	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	△ R621	VRN-RL3LB1R2J+	X 1.2	3.0W M-Film	AF
RJ96	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	△ R622	VRN-RL2HCR68J+	X 0.68	1/2W M-Film	AE
RJ97	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	△ R623	VRN-RL3AB1R0J	X 1.0	1W M-Film	AE
R57	VRS-CY1JF392J	J 3.9k	1/16W M-Ox.	AA	△ R624	VRS-RG3DB332J	X 3.3k	2W M-Ox.	AE
R201	VRS-CY1JF151J	J 150	1/16W M-Ox.	AA	R625	VRD-RA2BE102J	J 1.0k	1/8W Carbon	AA
R202	VRS-CY1JF122J	J 1.2k	1/16W M-Ox.	AA	R627	VRS-KT3LB471J	J 470	3.0W M-Ox.	AD
R203	VRS-CY1JF122J	J 1.2k	1/16W M-Ox.	AA	R631	VRS-RG3AB103J	J 10k	1W M-Ox.	AB
R204	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA	R633	VRD-RA2EE562J	J 5.6k	1/4W Carbon	AA
R211	VRS-CY1JF331J	J 330	1/16W M-Ox.	AA	R635	VRD-RA2EE683J	J 68k	1/4W Carbon	AA
R212	VRS-CY1JF000J	J 00	1/16W M-Ox.	AA	R638	VRS-CY1JF822J	J 8.2k	1/16W M-Ox.	AA
R215	VRS-CY1JF222J	J 2.2k	1/16W M-Ox.	AA	R639	VRD-RA2BE561J	J 560	1/8W Carbon	AA
R217	VRS-CY1JF102J	J 1.0k	1/16W M-Ox.	AA	R640	VRD-RA2BE473J	J 47k	1/8W Carbon	AA
R219	VRS-CY1JF102J	J 1.0k	1/16W M-Ox.	AA	R641	VRD-RA2BE151J	J 150	1/8W Carbon	AA
R220	VRS-CY1JF392J	J 3.9k	1/16W M-Ox.	AA	R647	VRD-RM2HD220J	J 22	1/2W Carbon	AA
R225	VRD-RA2BE680J	J 68	1/8W Carbon	AA	▲ △ R651	VRN-RL2HC1R0J	X 1.0	1/2W M-Film	AE
R226	VRD-RA2BE101J	J 100	1/8W Carbon	AB	▲ △ R652	VRD-RA2EE103G	J 10k	1/4W Carbon	AA
R227	VRS-CY1JF333J	J 33k	1/16W M-Ox.	AA	▲ △ R653	VRD-RA2EE562G	J 5.6k	1/4W Carbon	AA
R228	VRS-CY1JF102J	J 1.0k	1/16W M-Ox.	AA	▲ △ R654	VRD-RA2EE333G*	X 33k	1/4W Carbon	AE
R229	VRS-CY1JF221J	J 220	1/16W M-Ox.	AA	R655	VRS-CY1JF562J	J 5.6k	1/16W M-Ox.	AA
R233	VRS-CY1JF102J	J 1.0k	1/16W M-Ox.	AA	R656	VRS-CY1JF224J	J 220k	1/16W M-Ox.	AA
R234	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA	△ R658	VRS-VV3DB123J	J 12k	2W M-Ox.	AA
R235	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA	R659	VRS-CY1JF471J	J 470	1/16W M-Ox.	AA
R236	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA	R663	VRS-CY1JF102J	J 1.0k	1/16W M-Ox.	AA
R307	VRS-CY1JF333J	J 33k	1/16W M-Ox.	AA	R664	VRS-CY1JF471J	J 470	1/16W M-Ox.	AA
R361	VRS-CY1JF224J	J 220k	1/16W M-Ox.	AA	R666	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R362	VRD-RA2BE222J	J 2.2k	1/8W Carbon	AA	R667	VRS-CY1JF562J	J 5.6k	1/16W M-Ox.	AA
R363	VRD-RA2BE222J	J 2.2k	1/8W Carbon	AA	R668	VRD-RA2BE680J	J 68	1/8W Carbon	AA
					R669	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
					R670	VRD-RM2HD563J	J 56k	1/2W Carbon	AA
					△ R671	VRS-RG2HC102J	J 1.0k	1/2W M-Ox.	AA
					R672	VRD-RM2HD393J	J 39k	1/2W Carbon	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code		
PWB-A: DUNTKA526WEC0											
MAIN UNIT											
R674	VRD-RA2BE103J	J	10k 1/8W	Carbon	AA	R962	VRS-CY1JF221J	J	220 1/16W	M-Ox.	AA
△ R675	VRN-RL3DBR3R3J+	X	3.3 2W	M-Film	AE	R969	VRS-CY1JF221J	J	220 1/16W	M-Ox.	AA
R677	VRD-RA2EE103J	J	10k 1/4W	Carbon	AA	R989	VRS-CY1JF750J	J	75 1/16W	M-Ox.	AA
R678	VRD-RA2BE472J	J	4.7k 1/8W	Carbon	AA	R991	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox.	AA
R679	VRD-RM2HD103J	J	10k 1/2W	Carbon	AA	R992	VRS-CY1JF122J	J	1.2k 1/16W	M-Ox.	AA
R686	VRS-CY1JF473J	J	47k 1/16W	M-Ox.	AA	▲ R2001	VRD-RA2BE562J	J	5.6k 1/8W	Carbon	AA
R688	VRS-CY1JF223J	J	22k 1/16W	M-Ox.	AA	▲ R2002	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA
R689	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox.	AA	R2004	VRD-RA2BE101J	J	100 1/8W	Carbon	AB
R690	VRS-CY1JF683J	J	68k 1/16W	M-Ox.	AA	▲ R2007	VRS-CY1JF562J	J	5.6k 1/16W	M-Ox.	AA
R698	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA	R2008	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox.	AA
R699	VRS-CY1JF562J	J	5.6k 1/16W	M-Ox.	AA	▲ R2009	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA
△ R701	RR-DZ0049CEZZ	J	3.9M 1/2W	Solid	AB	R2010	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox.	AA
	or					R2011	VRD-RA2BE561J	J	560 1/8W	Carbon	AA
	RR-HZ0048CEZZ					▲ R2016	VRS-CY1JF104J	J	100k 1/16W	M-Ox.	AA
△ R702	VRW-KQ4AC1R2K	J	1.2 10W	Cement	AE	R2022	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA
△ R703	VRS-VV3LB101J	J	100 3W	M-Ox.	AB	R2024	VRS-CY1JF472J	J	4.7k 1/16W	M-Ox.	AA
R705	VRN-VV3DBR15J	J	0.15 2W	M-Film	AB	R2025	VRS-CY1JF472J	J	4.7k 1/16W	M-Ox.	AA
R706	VRN-VV3DBR15J	J	0.15 2W	M-Film	AB	R2026	VRS-CY1JF472J	J	4.7k 1/16W	M-Ox.	AA
R707	VRD-RM2HD270J	J	27 1/2W	Carbon	AA	R2027	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox.	AA
R709	VRD-RA2BE223J	J	22k 1/8W	Carbon	AA	R2028	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox.	AA
R710	VRS-SV2HC103J	J	10k 1/2W	M-Ox.	AA	R2029	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA
R711	VRD-RA2BE474J	J	470k 1/8W	Carbon	AA	R2040	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox.	AA
R712	VRD-RA2BE100J	J	10 1/8W	Carbon	AA	R2041	VRS-CY1JF333J	J	33k 1/16W	M-Ox.	AA
R713	VRS-RG2HC122J+	X	1.2k 1/2W	M-Ox.	AE	R2042	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA
R714	VRD-RM2HD100J	J	10 1/2W	Carbon	AA	R2043	VRS-CY1JF333J	J	33k 1/16W	M-Ox.	AA
R715	VRD-RA2BE391J	J	390 1/8W	Carbon	AA	R2044	VRS-CY1JF153J	J	15k 1/16W	M-Ox.	AA
R718	VRD-RA2BE102J	J	1.0k 1/8W	Carbon	AA	R2046	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA
R723	VRN-RL3DBR22J	J	0.22 2W	M-Film	AA	R2047	VRS-CY1JF221J	J	220 1/16W	M-Ox.	AA
△ R725	VRD-RM2HD821J	J	820 1/2W	Carbon	AA	R2048	VRS-CY1JF562J	J	5.6k 1/16W	M-Ox.	AA
△ R737	VRN-RL3DBR56J	X	0.56 2W	M-Film	AE	R2051	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox.	AA
R744	VRS-CY1JF272J	J	2.7k 1/16W	M-Ox.	AA	R2052	VRD-RA2BE101J	J	100 1/8W	Carbon	AB
R745	VRS-CY1JF472J	J	4.7k 1/16W	M-Ox.	AA	R2054	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox.	AA
R746	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA	R2055	VRS-CY1JF682J	J	6.8k 1/16W	M-Ox.	AA
R747	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA	R2060	VRS-CY1JF221J	J	220 1/16W	M-Ox.	AA
R751	VRS-CY1JF473J	J	47k 1/16W	M-Ox.	AA	R2061	VRS-CY1JF562J	J	5.6k 1/16W	M-Ox.	AA
R766	VRS-CY1JF333J	J	33k 1/16W	M-Ox.	AA	R2063	VRS-CY1JF222J	J	2.2k 1/16W	M-Ox.	AA
R767	VRS-CY1JF273J	J	27k 1/16W	M-Ox.	AA	R2064	VRS-CY1JF332J	J	3.3k 1/16W	M-Ox.	AA
R768	VRS-CY1JF332J	J	3.3k 1/16W	M-Ox.	AA	R2066	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA
R769	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA	R2067	VRD-RA2BE222J	J	2.2k 1/8W	Carbon	AA
R770	VRD-RM2HD823J	J	82k 1/2W	Carbon	AA	R2081	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA
R771	VRD-RA2BE272J	J	2.7k 1/8W	Carbon	AA	R2084	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA
R772	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA	R2101	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA
R774	VRS-CY1JF393J	J	39k 1/16W	M-Ox.	AA	R2102	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA
R775	VRS-CY1JF563J	J	56k 1/16W	M-Ox.	AA	R2201	VRS-CY1JF222J	J	2.2k 1/16W	M-Ox.	AA
R776	VRN-VV3DB1R0J	J	1.0 2W	M-Film	AB	R2202	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA
R777	VRS-KA3HG8R2K	J	8.2 5W	M-Ox.	AD	R2203	VRS-CY1JF184J	J	180k 1/16W	M-Ox.	AA
R778	VRS-VV3AB101J	J	100 1W	M-Ox.	AA	R2211	VRS-CY1JF222J	J	2.2k 1/16W	M-Ox.	AA
R779	VRS-CY1JF273J	J	27k 1/16W	M-Ox.	AA	R2212	VRS-CY1JF682J	J	6.8k 1/16W	M-Ox.	AA
R801	VRS-CY1JF333J	J	33k 1/16W	M-Ox.	AA	R2213	VRS-CY1JF333J	J	33k 1/16W	M-Ox.	AA
R802	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA	R2401	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA
R804	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox.	AA	R2402	VRD-RA2BE101J	J	100 1/8W	Carbon	AB
R805	VRS-CY1JF272J	J	2.7k 1/16W	M-Ox.	AA	R2403	VRD-RA2BE101J	J	100 1/8W	Carbon	AB
R806	VRS-CY1JF681J	J	680 1/16W	M-Ox.	AA	R2404	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA
R807	VRS-CY1JF681J	J	680 1/16W	M-Ox.	AA	R2501	VRS-CY1JF183J	J	18k 1/16W	M-Ox.	AA
R808	VRS-CY1JF681J	J	680 1/16W	M-Ox.	AA	R2502	VRS-CY1JF183J	J	18k 1/16W	M-Ox.	AA
R809	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA	R2503	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA
R810	VRD-RA2BE101J	J	100 1/8W	Carbon	AB	R2504	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA
R811	VRD-RA2BE101J	J	100 1/8W	Carbon	AB	R2505	VRS-CY1JF822J	J	8.2k 1/16W	M-Ox.	AA
R812	VRS-CY1JF224J	J	220k 1/16W	M-Ox.	AA	R2506	VRS-CY1JF822J	J	8.2k 1/16W	M-Ox.	AA
R813	VRD-RA2BE271J	J	270 1/8W	Carbon	AA	R2507	VRS-CY1JF183J	J	18k 1/16W	M-Ox.	AA
R816	VRS-CY1JF272J	J	2.7k 1/16W	M-Ox.	AA	R2508	VRS-CY1JF183J	J	18k 1/16W	M-Ox.	AA
R817	VRS-CY1JF272J	J	2.7k 1/16W	M-Ox.	AA	R2601	VRD-RA2BE470J	J	47 1/8W	Carbon	AA
R818	VRS-CY1JF272J	J	2.7k 1/16W	M-Ox.	AA	R2603	VRS-CY1JF000J	J	00 1/16W	M-Ox.	AA
R819	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA	R2605	VRS-CY1JF000J	J	00 1/16W	M-Ox.	AA
R820	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA						
R821	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA						
R822	VRD-RA2BE101J	J	100 1/8W	Carbon	AB						
R830	VRD-RA2BE102J	J	1.0k 1/8W	Carbon	AA						
R928	VRS-CY1JF750J	J	75 1/16W	M-Ox.	AA						
R940	VRS-CY1JF221J	J	220 1/16W	M-Ox.	AA						
R961	VRS-CY1JF221J	J	220 1/16W	M-Ox.	AA						
SWITCHES											
S2501						QSW-K0003AJZZ	J	POWER	AB		
						or					
						QSW-K0079GEZZ					
						or					
						QSW-K0202PEZZ					
S2502						QSW-K0003AJZZ	J	MENU	AB		
						or					
						QSW-K0079GEZZ					
						or					

Ref. No.	Part No.	★	Description	Code
PWB-A: DUNTKA526WEC0				
MAIN UNIT				
S2503	QSW-K0202PEZZ QSW-K0003AJZZ or QSW-K0079GEZZ or QSW-K0202PEZZ	J	VOL-DOWN	AB
S2504	QSW-K0003AJZZ or QSW-K0079GEZZ or QSW-K0202PEZZ	J	VOL-UP	AB
S2505	QSW-K0003AJZZ or QSW-K0079GEZZ or QSW-K0202PEZZ	J	CH-DOWN	AB
S2506	QSW-K0003AJZZ or QSW-K0079GEZZ or QSW-K0202PEZZ	J	CH-UP	AB
MISCELLANEOUS PARTS				
△ RY701	RRLYJ0081CEZZ or RRLYJ0094CEZZ	J	Relay	AL
△ F701	QFS-B4023CEZZ	J	Fuse, 4A-AC125V	AC
FB601	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB671	RBLN-0047CEZZ	J	Ferrite Bead	AB
FB702	RBLN-0020CEZZ	J	Ferrite Bead	AB
FB706	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB707	RBLN-0037CEZZ	J	Ferrite Bead	AB
FH701	QFSHD1013CEZZ	J	Fuse Holder	AC
FH702	QFSHD1014CEZZ	J	Fuse Holder	AC
J901	QTANJ0345CEZZ	X	Terminal	AG
J904	QJAKG0101GJZZ	X	Jack	AH
P52	QPLGN0160CEZZ	J	Plug, 1-pin(SG)	AB
P361	QPLGN0461CEZZ	J	Plug, 4-pin(S)	AB
P401	QPLGN0861CEZZ	J	Plug, 8-pin(GBM)	AC
P601	QPLGN0161FJZZ	J	Plug, 6-pin(K)	AE
P621	QPLGN0761CEZZ	J	Plug, 7-pin(YBN)	AD
P651	QPLGN0361CEZZ	J	Plug, 3-pin(P651-3)	AB
P701	QPLGN0460CEZZ	J	Plug, 4-pin(M)	AC
P703	QPLGN0269GEZZ	J	Plug, 2-pin(P)	AB
P705	QPLGN0160CEZZ	J	Plug, 1-pin(SG)	AB
P1301	QPLGN0561CEZZ	J	Plug, 5-pin(EJ)	AB
P1901	QPLGN1559REZZ	X	Plug, 15-pin(VA)	AF
P1902	QPLGN1559REZZ	X	Plug, 15-pin(VB)	AF
P1903	QPLGN1059REZZ	J	Plug, 10-pin(VC)	AC
P2401	QPLGN0561CEZZ	J	Plug, 5-pin	AB
SC3001	QSOCN0259FJ00	J	Socket, 10-pin(EA)	AE
RMC2601	RRMCU0222CEZZ or RRMCU0235CEZZ	J	R/C Receiver	AL
RDA361	PRDAR0108GJFW	X	Heat Sink, for IC361	AG
RDA501	PRDAR0113GJFW	X	Heat Sink, for IC501	AH
△ RDA602	PRDAR0114GJFW	X	Heat Sink, for Q602	AH
RDA673	PRDAR01007MEFW	J	Heat Sink, for Q673	AH
RDA701	PRDAR0117GJFW	X	Heat Sink, for Q701	AL
RDA751	PRDAR0111GJFW	X	Heat Sink, for IC751	AF
	MSPRK0034BMFW	J	Spring	AC
	LHLDW1002PEZZ	R	Holder	AB
	LX-BZ3049GEFD	J	Screw	AA
	LX-BZ3100CEFD	J	Screw	AA
	LX-HZ3007MEFD	X	Screw	AB

Ref. No.	Part No.	★	Description	Code
PWB-B: DUNTKA527WEA8				
CRT UNIT				
INTEGRATED CIRCUITS				
△ IC850	VHiTDA6103Q-1	J	TDA6103Q/N3	AL
TRANSISTORS				
Q850	VS2SA1266-Y-1	J	A1266-Y	AA
Q851	VS2SC3198-G-1	J	C3198-G	AA
DIODES				
D853	RH-EX0647GEZZ or RH-EX0417GEZZ	J	Zener Diode, 15V	AA
D854	VHD1SS119//-1	J	Diode	AB
D855	VHD1SS119//-1	J	Diode	AB
CAPACITORS				
<i>[EL. ... Electrolytic]</i>				
C850	VCFYSB2EB823J	J	0.082 250V Mylar	AD
C851	RC-KZ018JCEZZ or RC-KZ015JCEZZ	J	0.01 AC250V Ceramic	AC
C852	VCEA0A1CW227M	J	220 16V EL.	AC
C853	VCFYFA1HA224J	J	0.22 50V Mylar	AB
C854	VCEA0A1CW227M	J	220 16V EL.	AC
C855	VCEA0A2EW106M	J	10 250V EL.	AD
C856	VCEA0A1CW106M	J	10 16V EL.	AB
RESISTORS				
<i>[M-Ox. ... Metal Oxide]</i>				
R850	VRS-SV2HC152J	J	1.5k 1/2W M-Ox.	AA
R851	VRS-SV2HC152J	J	1.5k 1/2W M-Ox.	AA
R852	VRS-SV2HC152J	J	1.5k 1/2W M-Ox.	AA
△ R853	VRS-SV2HC272J	J	2.7k 1/2W M-Ox.	AA
△ R854	VRS-SV2HC272J	J	2.7k 1/2W M-Ox.	AA
△ R855	VRS-SV2HC272J	J	2.7k 1/2W M-Ox.	AA
R856	VRD-RM2HD224J	J	220k 1/2W Carbon	AA
R857	VRD-RM2HD224J	J	220k 1/2W Carbon	AA
R858	VRD-RM2HD224J	J	220k 1/2W Carbon	AA
R862	VRC-MA2HG152K	J	1.5k 1/2W Solid	AA
R863	VRC-MA2HG152K	J	1.5k 1/2W Solid	AA
R864	VRC-MA2HG152K	J	1.5k 1/2W Solid	AA
R867	VRS-SV2HC392J	J	3.9k 1/2W M-Ox.	AA
R868	VRS-SV2HC222J	J	2.2k 1/2W M-Ox.	AA
R870	VRD-RA2BE223J	J	22k 1/8W Carbon	AA
R871	VRD-RA2BE223J	J	22k 1/8W Carbon	AA
R872	VRD-RA2EE680J	J	68 1/4W Carbon	AA
R873	VRD-RM2HD224J	J	220k 1/2W Carbon	AA
R874	VRD-RM2HD184J	J	180k 1/2W Carbon	AA
R875	VRD-RM2HD184J	J	180k 1/2W Carbon	AA
R876	VRD-RM2HD184J	J	180k 1/2W Carbon	AA
R877	VRD-RA2BE103J	J	10k 1/8W Carbon	AA
△ R878	VRS-SV2HC120J	J	12 1/2W M-Ox.	AA
MISCELLANEOUS PARTS				
P854	QPLGN0741CEZZ	J	Plug, 7-pin(YBN)	AC
P860	QPLGN0841CEZZ	J	Plug, 8-pin(GBN)	AB
SC850	QSOCV0937CEZZ	J	CRT Socket	AL
△ RDA850	PRDAR0248PEFW	R	Heat Sink, for IC850	AF
	LX-BZ3100CEFD	J	Screw	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
PWB-C: DUNTKA528WEA6									
AV UNIT									
INTEGRATED CIRCUITS									
IC1401	VHiTC90A45F-1	J	TC90A45F	AM	C1903	VCKYCY1HB681K	J	680p 50V	Ceramic AA
IC1900	VHiCXA2089Q-1	J	CXA2089Q	AN	C1904	VCEA0A1HW105M	J	1.0 50V	EL. AB
TRANSISTORS					C1905	VCEA0A1HW105M	J	1.0 50V	EL. AB
Q1401	VS2PD601AR/-1	J	D601AR	AB	C1906	VCKYCY1HB681K	J	680p 50V	Ceramic AA
	or				C1907	VCEA0A1HW105M	J	1.0 50V	EL. AB
	VS2PC1623L61E				C1908	VCKYCY1HB103K	J	0.01 50V	Ceramic AA
Q1404	VS2PD601AR/-1	J	D601AR	AB	C1909	VCEA0A1HW105M	J	1.0 50V	EL. AB
	or				C1910	VCEA0A1HW105M	J	1.0 50V	EL. AB
	VS2PC1623L61E				C1911	VCEA0A1HW105M	J	1.0 50V	EL. AB
Q1405	VS2PD601AR/-1	J	D601AR	AB	C1912	VCEA0A1HW105M	J	1.0 50V	EL. AB
	or				C1913	VCEA0A1HW105M	J	1.0 50V	EL. AB
	VS2PC1623L61E				C1914	VCKYCY1HB681K	J	680p 50V	Ceramic AA
Q1406	VS2SA812-M51E	J	A812-M5	AC	C1915	VCKYCY1HF103Z	J	0.01 50V	Ceramic AA
	or				C1916	VCKYCY1HF103Z	J	0.01 50V	Ceramic AA
	VS2SB709AR/-1				C1921	VCKYCY1HB681K	J	680p 50V	Ceramic AA
Q1407	VS2PD601AR/-1	J	D601AR	AB	C1922	VCKYCY1CF104Z	J	0.1 16V	Ceramic AA
	or				C1923	VCEA0A1CW107M	J	100 16V	EL. AC
	VS2PC1623L61E				C1926	VCEA0A1CW226M	J	22 16V	EL. AB
Q1408	VS2SA812-M51E	J	A812-M5	AC	C1927	VCKYCY1HB681K	J	680p 50V	Ceramic AA
	or				C1928	VCEA0A1CW106M	J	10 16V	EL. AB
	VS2SB709AR/-1				C1929	VCKYCY1HB681K	J	680p 50V	Ceramic AA
Q1409	VS2PD601AR/-1	J	D601AR	AB	C1937	VCEA0A1HW105M	J	1.0 50V	EL. AB
	or				C1938	VCEA0A1HW105M	J	1.0 50V	EL. AB
	VS2PC1623L61E				C1939	VCEA0A1HW105M	J	1.0 50V	EL. AB
Q1907	VS2PD601AR/-1	J	D601AR	AB	RESISTORS				
	or				<i>[M-Ox. ... Metal Oxide]</i>				
	VS2PC1623L61E				RJ11	VRS-CY1JF000J	J	00 1/16W	M-Ox. AA
Q1909	VS2SA812-M51E	J	A812-M5	AC	RJ13	VRS-CY1JF000J	J	00 1/16W	M-Ox. AA
	or				RJ14	VRS-CY1JF000J	J	00 1/16W	M-Ox. AA
	VS2SB709AR/-1				RJ15	VRS-CY1JF000J	J	00 1/16W	M-Ox. AA
	VS2PC1623L61E				RJ16	VRS-CY1JF000J	J	00 1/16W	M-Ox. AA
	VS2SB709AR/-1				RJ17	VRS-CY1JF000J	J	00 1/16W	M-Ox. AA
	VS2PC1623L61E				RJ18	VRS-CY1JF000J	J	00 1/16W	M-Ox. AA
	VS2SB709AR/-1				RJ19	VRS-CY1JF000J	J	00 1/16W	M-Ox. AA
	VS2PC1623L61E				RJ21	VRS-CY1JF000J	J	00 1/16W	M-Ox. AA
	VS2SB709AR/-1				RJ22	VRS-CY1JF000J	J	00 1/16W	M-Ox. AA
	VS2PC1623L61E				RJ23	VRS-CY1JF000J	J	00 1/16W	M-Ox. AA
	VS2SB709AR/-1				RJ26	VRS-CY1JF000J	J	00 1/16W	M-Ox. AA
COILS					R1402	VRS-CY1JF681J	J	680 1/16W	M-Ox. AA
L1406	VP-XF330K0000	J	Peaking 33μH	AB	R1403	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox. AA
L1407	VP-XF150K0000	J	Peaking 15μH	AB	R1404	VRS-CY1JF182J	J	1.8k 1/16W	M-Ox. AA
L1408	VP-XF100K0000	J	Peaking 10μH	AB	R1405	VRS-CY1JF471J	J	470 1/16W	M-Ox. AA
L1410	VP-XF100K0000	J	Peaking 10μH	AB	R1406	VRS-CY1JF821J	J	820 1/16W	M-Ox. AA
L1411	VP-XF100K0000	J	Peaking 10μH	AB	R1407	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox. AA
L1413	VP-XF330K0000	J	Peaking 33μH	AB	R1420	VRS-CY1JF103J	J	10k 1/16W	M-Ox. AA
L1414	VP-XF330K0000	J	Peaking 33μH	AB	R1422	VRS-CY1JF473J	J	47k 1/16W	M-Ox. AA
CAPACITORS					R1423	VRS-CY1JF223J	J	22k 1/16W	M-Ox. AA
<i>[EL. ... Electrolytic]</i>					R1424	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox. AA
C1415	VCCCCY1HH220J	J	22p 50V	Ceramic AA	R1425	VRS-CY1JF221J	J	220 1/16W	M-Ox. AA
C1416	VCEA0A1CW107M	J	100 16V	EL. AC	R1426	VRS-CY1JF391J	J	390 1/16W	M-Ox. AA
C1420	VCCCCY1HH120J	J	12p 50V	Ceramic AA	R1427	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox. AA
C1421	VCCCCY1HH120J	J	12p 50V	Ceramic AA	R1428	VRS-CY1JF473J	J	47k 1/16W	M-Ox. AA
C1424	VCCCCY1HH390J	J	39p 50V	Ceramic AA	R1429	VRS-CY1JF223J	J	22k 1/16W	M-Ox. AA
C1428	VCKYCY1HB103K	J	0.01 50V	Ceramic AA	R1430	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox. AA
C1429	VCKYCY1HB103K	J	0.01 50V	Ceramic AA	R1431	VRS-CY1JF122J	J	1.2k 1/16W	M-Ox. AA
C1430	VCEA0A1CW106M	J	10 16V	EL. AB	R1432	VRS-CY1JF331J	J	330 1/16W	M-Ox. AA
C1436	VCKYCY1HF103Z	J	0.01 50V	Ceramic AA	R1433	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox. AA
C1439	VCE9GA1CW106M	J	10 16V	EL. (N.P) AB	R1434	VRS-CY1JF471J	J	470 1/16W	M-Ox. AA
C1441	VCKYCY1HF103Z	J	0.01 50V	Ceramic AA	R1435	VRS-CY1JF102J	J	1.0k 1/16W	M-Ox. AA
C1442	VCFYFA1HA474J	J	0.47 50V	Mylar AC	R1459	VRS-CY1JF821J	J	820 1/16W	M-Ox. AA
C1443	VCKYCY1HF103Z	J	0.01 50V	Ceramic AA	R1900	VRS-CY1JF101J	J	100 1/16W	M-Ox. AA
C1445	VCKYCY1CF104Z	J	0.1 16V	Ceramic AA	R1930	VRS-CY1JF223J	J	22k 1/16W	M-Ox. AA
C1446	VCCCCY1HH181J	J	180p 50V	Ceramic AA	R1932	VRS-CY1JF223J	J	22k 1/16W	M-Ox. AA
C1447	VCKYCY1HF103Z	J	0.01 50V	Ceramic AA	R1935	VRS-CY1JF101J	J	100 1/16W	M-Ox. AA
C1453	VCKYCY1HF103Z	J	0.01 50V	Ceramic AA	R1936	VRS-CY1JF223J	J	22k 1/16W	M-Ox. AA
C1454	VCKYCY1HF103Z	J	0.01 50V	Ceramic AA	R1937	VRS-CY1JF101J	J	100 1/16W	M-Ox. AA
C1456	VCKYCY1CF104Z	J	0.1 16V	Ceramic AA	R1938	VRS-CY1JF223J	J	22k 1/16W	M-Ox. AA
C1457	VCEA0A1CW476M	J	47 16V	EL. AB	R1941	VRS-CY1JF101J	J	100 1/16W	M-Ox. AA
C1458	VCEA0A1CW106M	J	10 16V	EL. AB	R1942	VRS-CY1JF223J	J	22k 1/16W	M-Ox. AA
C1460	VCKYCY1HF103Z	J	0.01 50V	Ceramic AA	R1943	VRS-CY1JF101J	J	100 1/16W	M-Ox. AA
C1470	VCCCCY1HH100D	J	10p 50V	Ceramic AA	R1944	VRS-CY1JF223J	J	22k 1/16W	M-Ox. AA
C1473	VCCCCY1HH100D	J	10p 50V	Ceramic AA	R1945	VRS-CY1JF101J	J	100 1/16W	M-Ox. AA
C1474	VCCCCY1HH150J	J	15p 50V	Ceramic AA	R1946	VRS-CY1JF103J	J	10k 1/16W	M-Ox. AA
C1900	VCKYCY1HB681K	J	680p 50V	Ceramic AA	R1954	VRD-RA2BE221J	J	220 1/8W	Carbon AA
C1901	VCKYCY1HB681K	J	680p 50V	Ceramic AA					

Ref. No.	Part No.	★	Description	Code
PWB-C: DUNTKA528WEA6				
AV UNIT (Continued)				

R1955	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R1956	VRS-CY1JF222J	J	2.2k	1/16W	M-Ox.	AA
R1957	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R1958	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R1959	VRS-CY1JF102J	J	1.0k	1/16W	M-Ox.	AA
R1960	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R1962	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R1964	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R1965	VRS-CY1JF222J	J	2.2k	1/16W	M-Ox.	AA
R1966	VRS-CY1JF102J	J	1.0k	1/16W	M-Ox.	AA
R1971	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R1972	VRD-RA2BE101J	J	100	1/8W	Carbon	AB

MISCELLANEOUS PARTS

P1904	QPLGN0541CEZZ	J	Plug, 5-pin(EJ)	AB
SC1901	QSOCN1598REZZ	X	Socket, 15-pin(VA)	AE
SC1902	QSOCN1598REZZ	X	Socket, 15-pin(VB)	AE
SC1903	QSOCN1098REZZ	J	Socket, 10-pin(VC)	AC
SLD1901	PSLDM0102GJFW	X	Shield	AP

Ref. No.	Part No.	★	Description	Code
PWB-S: DUNTKA070WEV3				
MTS UNIT				

INTEGRATED CIRCUIT

IC3001	VHiCXA2074Q-1	J	CXA2074Q	AY
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CAPACITORS*[EL. ... Electrolytic]*

C3001	VCE9GA1HW475M	J	4.7	50V	EL. (N.P)	AB
C3002	VCKYCY1HB562K	J	5600p	50V	Ceramic	AA
C3003	VCQYTA1HM123J	J	0.012	50V	Mylar	AA
C3004	VCEA0A1HW105M	J	1.0	50V	EL.	AB
C3005	VCEA9A1HW475M	J	4.7	50V	EL.	AB
C3006	VCEA0A1HW106M	J	10	50V	EL.	AB
C3007	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C3008	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3009	VCEA0A1CW227M	J	220	16V	EL.	AC
C3010	VCE9GA1HW475M	J	4.7	50V	EL. (N.P)	AB
C3011	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C3012	VCE9GA1HW475M	J	4.7	50V	EL. (N.P)	AB
C3013	VCKYCY1HB272K	J	2700p	50V	Ceramic	AA
C3014	VCQYTA1HM473J	J	0.047	50V	Mylar	AA
C3015	VCEACA1HC335K	J	3.3	50V	EL.	AC
C3016	VCE9GA1HW475M	J	4.7	50V	EL. (N.P)	AB
C3017	VCEACA1CC106K	J	10	16V	EL.	AC
C3018	VCEA0A1HW105M	J	1.0	50V	EL.	AB

RESISTORS*[M-Ox. ... Metal Oxide]*

RJ1	VRS-CY1JF000J	J	00	1/16W	M-Ox.	AA
RJ2	VRS-CY1JF000J	J	00	1/16W	M-Ox.	AA
RJ3	VRS-CY1JF000J	J	00	1/16W	M-Ox.	AA
RJ4	VRS-CY1JF000J	J	00	1/16W	M-Ox.	AA
RJ5	VRS-CY1JF000J	J	00	1/16W	M-Ox.	AA
RJ6	VRS-CY1JF000J	J	00	1/16W	M-Ox.	AA
R3001	VRS-CY1JF221J	J	220	1/16W	M-Ox.	AA
R3002	VRS-CY1JF221J	J	220	1/16W	M-Ox.	AA
R3003	VRS-CY1JF105J	J	1.0 M	1/16W	M-Ox.	AA
R3004	VRS-CY1JF104J	J	100k	1/16W	M-Ox.	AA
R3005	VRS-CY1JF623J	J	62k	1/16W	M-Ox.	AA
R3007	VRS-CY1JF332J	J	3.3k	1/16W	M-Ox.	AA
R3008	VRS-CY1JF302J	J	3.0k	1/16W	M-Ox.	AA
R3010	VRS-CY1JF392J	J	3.9k	1/16W	M-Ox.	AA
R3011	VRS-CY1JF102J	J	1.0k	1/16W	M-Ox.	AA
R3012	VRS-CY1JF102J	J	1.0k	1/16W	M-Ox.	AA
R3373	VRS-CY1JF000J	J	00	1/16W	M-Ox.	AA

MISCELLANEOUS PARTS

P3001	QPLGN0242FJ00	J	Plug, 10-pin(EA)	AE
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Ref. No.	Part No.	★	Description	Code
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MISCELLANEOUS PARTS

△ ACC701	QACCD3065CESA	J	Ac Cord	AN
SP1	VSP1206PB598A	X	Speaker (L), 8 ohm	AP
SP2	VSP1206PB598A	X	Speaker (R), 8 ohm	AP
	QCNW-0136GJZZ	X	Connecting Cord(S)	AG
	QCNW-A081GJZZ	X	Connecting Cord(YBN)	AG
	QCNW-A082GJZZ	X	Connecting Cord(GBN)	AH
	QCNW-0135GJZZ	X	Connecting Cord(EJ)	AH
	QCNW-0167GJZZ	X	Connecting Cord	AF
	LHLDK0014PEZZ	R	AC Cord Holder	AD
	LX-TZ0104GJFD	X	Screw for CRT	AF
	LX-WZ0104GJFD	X	CRT Washer	AC
	TCAUH3044GJZZ	X	Caution Card	AD
	TLABM0002GJZZ	X	Label	AB

SUPPLIED ACCESORRIES

RRMCG1324CESA	J	Infrared R-C	AT
TGAN-0001GJZZ	X	Guarantee Card	AB
TiNS-7515GJZZ	X	Operation Manual	AG

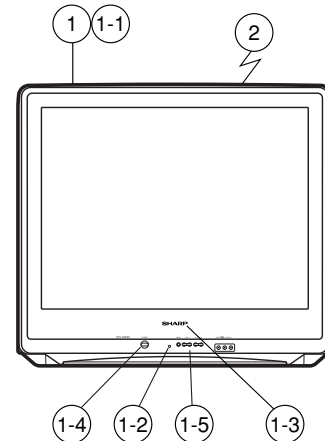
PACKING PARTS (NOT REPLACEMENT ITEM)

SPAKC0238GJZZ	—	Packing Case	—
SPAKP0110GJZZ	—	Wrapping Paper	—
SPAKX0128GJZZ	—	Packing Add.	—
SSAKA0101GJZZ	—	Polyethylene Bag	—
TLABZ0178GJZZ	—	Packing Case Label	—

Ref. No.	Part No.	★	Description	Code
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CABINET PARTS

1	CCABA0161WEH0	X	Front Cabinet Ass'y	BG
1-1	Not Available	—	Front Cabinet	—
1-2	GCOVA0119GJKA	X	R/C Cover	AF
1-3	HBDGB1009MESA	X	Badge, " SHARP "	AG
1-4	JBTN-0119GJKA	X	Button, Power	AG
1-5	JBTN-0120GJKA	X	Button, Menu, Vol-up/down, CH-up/down	AF
2	GCABB0143GJKA	X	Rear Cabinet	BD



PACKING OF THE SET

